

Exam 98-381: Introduction to Programming Using Python – Skills Measured

Audience Profile

Candidates for this exam should be able to recognize and write syntactically correct Python code, recognize data types supported by Python, and be able to recognize and write Python code that will logically solve a given problem.

Candidates are expected to have had, at a minimum, instruction and/or hands-on experience of approximately 100 hours with the Python programming language, be familiar with its features and capabilities, and understand how to write, debug, and maintain well-formed, well-documented Python code.

Skills Measured

NOTE: The bullets that appear below each of the skills measured are intended to illustrate how we are assessing that skill. This list is not definitive or exhaustive.

NOTE: In most cases, exams do NOT cover preview features, and some features will only be added to an exam when they are GA (General Availability).

Perform Operations using Data Types and Operators (20-25%)

Evaluate an expression to identify the data type Python will assign to each variable

- identify str, int, float, and bool data types

Perform data and data type operations

- convert from one data type to another type; construct data structures; perform indexing and slicing operations

Determine the sequence of execution based on operator precedence

- assignment; comparison; logical; arithmetic; identity (is); containment (in)

Select the appropriate operator to achieve the intended result

- assignment; comparison; logical; arithmetic; identity (is); containment (in)

Exam 98 381 Introduction To Programming Using Python

Patrick Vollmar



Exam 98 381 Introduction To Programming Using Python:

MICROSOFT PYTHON CERTIFICATION (98-381) EXAM Anthony Daccache, The 98 381 Introduction to Programming Using Python is a Python certification from Microsoft The certification is meant for candidates who can Recognize the various data types in Python Understand and modify existing Python code Write syntactically correct Python code Upon successful completion of the Microsoft Python certification examination the candidates are awarded the MTA Microsoft Technical Associate credential An MTA 98 391 certified individual can work with Python on a professional level and is ready to explore the advanced aspects of the high level general purpose programming language and related technologies Exam Details Name Introduction to Programming Using Python Code 98 381 Duration 45 minutes Language s Chinese Simplified Chinese Traditional English French German Japanese Korean Portuguese Brazil and Spanish Level Associate Passing Percentage 70% Prerequisites 100 hours of instruction hands on experience in the Python programming language familiarity with the capabilities and features of Python ability to understand write debug and maintain well documented Python code Price 127 Total Questions 40 Type Drag drop a selection from the drop down list single choice and multiple choice questions Syllabus Data and data type operations Document and structure code Error handling Input and output operations Python conditional statements and looping Python modules and tools Now that you know what the best certifications are it s time to prepare for them How to do that You need to go through the syllabus practice read as much as possible about Python and much more You can however also take Python certification practice tests to ensure that you re certification ready without overindulging yourself in preparation for clearing the Python certification exam *MTA 98-381* Brian Overland,2018 In MTA 98 381 Introduction to Programming Using Python LiveLessons you learn the fundamentals of writing syntactically correct Python code to solve real world programming problems You also gain hands on experience to prepare for Microsoft MTA exam 98 383 Python programming all the way to troubleshooting error handling and beyond One step at a time you learn how to perform Python assignments decipher Boolean and numeric data types construct Python strings perform indexing and slicing string operations perform input and output operations manage flow with decisions and loops write to a text file handle exceptions and import and use Python packages Throughout Brian covers the MTA exam 98 381 objective domains logically and provides opportunities to review and practice fundamental concepts and techniques Topics are organized into bite sized self contained lessons so you can learn key Python skills quickly and easily This video course along with additional study can help you achieve the hours of instruction and hands on experience recommended to take the exam and demonstrate your mastery of fundamental Python concepts Resource description page [Begin to Code with Python](#) Rob Miles,2017-11-21 Become a Python programmer and have fun doing it Start writing software that solves real problems even if you have absolutely no programming experience This friendly easy full color book puts you in total control of your own learning empowering you to build unique and useful programs Microsoft has completely reinvented the beginning programmer s

tutorial reflecting deep research into how today's beginners learn and why other books fall short. Begin to Code with Python is packed with innovations from its Snaps prebuilt operations to its Make Something Happen projects. Whether you're a total beginner or you've tried before, this guide will put the power, excitement, and fun of programming where it belongs in your hands. Easy, friendly, and you're in control. Learn how to Get install and use powerful free tools to create modern Python programs. Learn key concepts from 170 sample programs and use them to jumpstart your own. Discover exactly what happens when a program runs. Approach program development with a professional perspective. Learn the core elements of the Python language. Build more complex software with classes, methods, and objects. Organize programs so they're easy to build and improve. Capture and respond to user input. Store and manipulate many types of real-world data. Define custom data types to solve specific problems. Create interactive games that are fun to play. Build modern web and cloud-based applications. Use pre-built libraries to quickly create powerful software. Get code samples including complete apps at <https://aka.ms/BeginToCodePython>. Downloads: About This Book. For absolute beginners who've never written a line of code. For anyone who's been frustrated with other beginning programming books or courses. For people who've started out with other languages and now want to learn Python. Works with Windows, PC, Apple, Mac, Linux, PC, or Raspberry Pi. Includes mapping of MTA exam objectives that are covered in this book, as well as an appendix with further explanation of some of the topics on the exam.

Microsoft Python Certification Exam 98-281 & PCEP - Preparation Guide by R. Raman, Dhyanashri Raman, Archith Raman, 2021-01-14. Python is the futuristic language. Simple, easy, powerful. Get certified in Python. This exam guide prepares you to pass both Microsoft Python certification and PCEP exam certification. Total 6 Practice Tests. This Python certification guide has programs uniquely designed to make you pass, get a great score in Python certification exam. This Python programming guide assumes a certain level of programming knowledge. It is not a beginner textbook. Pre-Requisites: Basic programming language skills using Python with hands-on experience. About this Microsoft Python Certification Exam 98-281 PCEP Preparation Guide: 6 Practice tests, 240 Questions. This guide has four individual modules, practice tests, and two full final practice tests. The 6 modules are as follows: Module 1: Perform Operations Using Data Types and operators (20-25%), Module 2: Control Flow with Decisions, Loops (25-30%), Module 3: Perform input/output operations using console, Files (20-25%), Module 4: Document Structure, Code Error, Exceptions, Module Tools (20-25%), Module 5: Python Certification Microsoft 98-381 Full Practice Test 1, Module 6: Python Certification Microsoft 98-381 Full Practice Test 2. Audience for this Guide: Beginner Python Developers looking for an edge in the industry to get the next career in Python through certification. College students who want to be Python certified and differentiate from other students through this certification. High school students who want to be Python Certified to showcase their skills to colleges. All computer professionals interested in getting Python certification to launch a career in Data science, Artificial Intelligence, Machine Learning. Benefits of Python certification: Makes you stand apart in Job Market, Beat the competition, Better Salary, Great Employers, Makes you a trustworthy employee, Gives you

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science and Python programming [Python Institute](#) David Mayer,2020-12-28 Master Python Become Python Certified to Get Promoted Start a Whole New Career Do you want to demonstrate your proficiency and skill through Python certifications Do you want to get prepared for Python certifications exam If you answered yes to any of these then this is the perfect educational and informational book for you Hello Welcome to the Python Institute Exams Study Guide Getting certified as a Python developer is one of the best achievement you can achieve to enter the job market as a developer Python is ranked as the second most in demand programming language in the world It can be applied in web applications machine learning self driving cars data science automation and much more This book is not only good for the preparation of test but also helpful for all students who want to test their knowledge of python programming language This guide will cover all aspects of the Python Institute Exam Certifications The author begins by discussing an intro to the Python Institute Certification exam He described the solid fundamental information of the concepts and a basic understanding of the certification exam Here s what makes this book special Basics Fundamentals of Python Exams CAP 31 02 CERTIFIED ASSOCIATE IN PYTHON PROGRAMMING Exam Guide Sample Practice Test Prepare for Python Certifications 100% verified answers and explanations to each question Build the skills and confidence to crush the Python exam By the end of this book you will be prepared to take the Python certification Exams Finishing this book will provide you a complete understanding and deep knowledge of all the tools Much much more Interested Then Scroll up Click on Buy now with 1 Click and Get Your Copy Now Also you will get 50% discount on the simulator To get discount for the simulator you have to send your purchase receipt to mentioned email address in eBook [Python Crash Course, 3rd Edition](#) Eric Matthes,2023-01-10 Python Crash Course is the world s bestselling programming book with over 1 500 000 copies sold to date Python Crash Course is the world s best selling guide to the Python programming language This fast paced thorough introduction will have you writing programs solving problems and developing functioning applications in no time You ll start by learning basic programming concepts such as variables lists classes and loops and practice writing clean code with exercises for each topic You ll also learn how to make your programs interactive and test your code safely before adding it to a project You ll put your new knowledge into practice by creating a Space Invaders inspired arcade game building a set of data visualizations with Python s handy libraries and deploying a simple application online As you work through the book you ll learn how to Use powerful Python libraries and tools including pytest Pygame Matplotlib Plotly and Django Make increasingly complex 2D games that respond to keypresses and mouse clicks Generate interactive data visualizations using a variety of datasets Build apps that allow users to create accounts and manage their own data and deploy your apps online Troubleshoot coding errors and solve common programming problems New to this edition This third edition is completely revised to reflect the latest in Python code New and updated coverage includes VS Code for text editing the pathlib module for file handling pytest for testing your code as well as the latest features of Matplotlib Plotly and Django If you ve been thinking about digging into programming Python

Crash Course will provide you with the skills to write real programs fast Why wait any longer Start your engines and code Covers Python 3 x **Learning Python** Glenna Whittier,2021-04 Python is a simple yet powerful programming language that can enable you to start thinking like a programmer right from the beginning It is very readable and the stress many beginners face about memorizing arcane syntax typically presented by other programming languages will not affect you at all Conversely you will be able to concentrate on learning concepts and paradigms of programming In this Python Crash Course book you will discover CHAPTER 1 Installing Python Hello World Create your First Python Program Python Main Function with Examples CHAPTER 2 Python String Strings indexing and splitting Reassigning strings CHAPTER 3 Python Tuple Example Example 2 CHAPTER 4 Python Dictionary Creating the dictionary Accessing the dictionary values CHAPTER 5 Python Operators Arithmetic operators Comparison operator CHAPTER 6 Python Functions Advantage of functions in python Creating a function Function calling CHAPTER 7 Python If else statements Indentation in Python The if statement CHAPTER 8 Python Loops Python for loop And so much more Download your copy today **Introduction to Computing & Problem Solving With PYTHON** Jeeva Jose,P.Sojan Lal,2016-08-01 This book Introduction to Computing and Problem Solving with Python will help every student teacher and researcher to understand the computing basics and advanced PythonProgramming language The Python programming topics include the reserved keywords identifiers variables operators data types and their operations flowcontrol techniques which include decision making and looping modules filesand exception handling techniques Advanced topics like Python regularexpressions Database Programming and Object Oriented Programming concepts arealso covered in detail All chapters have worked out programs illustrations review and frequently asked interview questions The simple style of presentationmakes this a friend for self learners More than 300 solved lab exercisesavailable in this book is tested in Python 3 4 3 version for Windows The book covers syllabus for more than 35 International Universities and45 Indian universities like Dr APJ Abdul Kalam Technological University Christ University Savitribai Phule Pune University University of Delhi University of Calicut Mahatma Gandhi University University of Mumbai AICTE CBSE MIT University of Virginia University of Chicago University of Toronto Technical University of Denmark etc

Python Certification Exam Success: Comprehensive Practice Question Bank Anand Vemula,2024-04-16 Python Certification Exam Success Comprehensive Practice Question Bank is an essential resource designed to help aspiring Python developers and programmers prepare for their certification exams with confidence This comprehensive book offers a diverse array of practice questions meticulously crafted to cover the breadth and depth of topics typically included in Python certification exams From basic syntax and data structures to advanced concepts like object oriented programming and web development frameworks each question is thoughtfully designed to challenge and reinforce the reader s understanding of Python Organized into sections corresponding to different exam domains the book allows readers to focus their study efforts efficiently and effectively Whether you re pursuing certification from organizations like Python Institute or other reputable

certifying bodies this book serves as a trusted companion throughout your preparation journey Each question is accompanied by detailed explanations and solutions enabling readers to not only assess their knowledge but also learn from their mistakes Additionally the book provides insights into common pitfalls and best practices helping readers develop a deeper understanding of Python concepts and principles With its comprehensive coverage rigorous practice questions and insightful explanations Python Certification Exam Success Comprehensive Practice Question Bank equips readers with the tools they need to excel in their certification exams and advance their careers in Python development Whether you re a novice programmer aiming to validate your skills or an experienced professional seeking to enhance your credentials this book is an invaluable resource for achieving Python certification success *Python Made Easy* Kevin Wilson,2023-07-31 Python Made Easy A First Course in Computer Programming is a full color step by step hands on introduction to the world of computer programming using Python With a focus on practical application this book is designed to equip anyone seeking an interactive introduction to Python with the essential skills and knowledge needed to start their programming journey This book adopts a learn by doing approach providing a rich set of lab exercises at the end of each section and larger programming projects for you to try By actively engaging with coding exercises along with step by step guidance illustrations and video demos you ll develop a solid understanding of Python and build your skills Here s what you ll learn Install Python on Windows Mac and Linux Python syntax and basics Data types and Data structures File Handling Python Functions Exception and Error Handling in Python Object Oriented Programming Using Modules and Libraries in your Python Programs Building GUIs and using Graphics Turtle Graphics Game Development Testing and Debugging your Programs How to deploy your Python Programs Web Development using Python Frameworks Python Made Easy A First Course in Computer Programming using Python is the ideal companion for anyone seeking an interactive introduction to Python programming Whether you are a student an aspiring programmer or a professional from a non technical background this book will empower you to master the fundamentals of Python and the world of computer programming Have Fun [A Master's Course in Python](#) Humanity View,Z Bey,2023-01-23 The course includes Certificate of Certification if the students submit the Final Exam with the project that accompanies this book A Master s Course in Python course is designed to provide students with a solid foundation in Python programming as well as an introduction to web development data science and machine learning The course covers the fundamental concepts of Python including data types variables control structures functions and modules It also covers advanced essential concepts and best practices of Python It includes real world case studies a wealth of Research reports on Python programming concepts Reference for additional books website and other study material as well as a Glossary of Terms It provides hands on experience with real world projects and prepares students for future opportunities in the field of software development By the end of the course students will be able to have a University level of Python programming Table of Contents Module 1 Introduction to Python Definitions for this week What is Python Why do we need to use Python Careers

in Python Software for Learning Python Setting up the Development Environment in Python Best Approach Case Studies Syntax and Structure Data Types Sets and Bytes Declaring Variables Naming Conventions Basic operations with Variables Control Structures Loops Dictionaries Functions and Modules Resources References Quiz 1 Functions Continued Parameters Return Values Recursions Traversing Generating Permutations Combinations Import Statement Case Studies Resources Websites Quiz 2 Module 3 Aspects of Good Software Development Classes and Objects Inheritance and Polymorphism Reusable code Maintainable code Error Handling File Input Output I O Regular Expressions regex SQLite MySQL and PostgreSQL Lists and Tuples Slicing and Indexing Encapsulations and Abstraction Decorators and Generators Review Case Studies Resources Websites Books Quiz 3 Module 4 CSV and JSON API and XML SOAP REST GET POST PUT and DELETE Lambda Functions Flask and Django Framework ORM Web Development HTML CSS and JavaScript Building Web Applications Database Management Final Exam Project Building a To Do List Application Resources Books References Research Studies Glossary of Terms

Introduction to Programming Using Python, An, Global Edition David I. Schneider, 2015-10-07 For college level Computer Science courses in Python Basic Programming and Problem Solving in Python As one of the most widely used programming languages in the software industry Python is desirable to both learn and teach *Introduction to Programming Using Python* is designed for students eager to learn about the world of programming Applicable to a range of skill levels this First Edition textbook provides students with the tools to harness the powerful syntax of Python and understand how to develop computer programs The compactly written text leverages highly focused chapters diving deep into the most significant topics to give students an in depth rather than superficial understanding of the language Using real world examples and data the author illustrates practical usage of Python in a way to which students can relate The text itself is readable organised and informative discussing main points of each topic first and then addressing the peripheral details Students learn good programming habits the first time bringing them in line with the best modern programming practices The full text downloaded to your computer With eBooks you can search for key concepts words and phrases make highlights and notes as you study share your notes with friends eBooks are downloaded to your computer and accessible either offline through the Bookshelf available as a free download available online and also via the iPad and Android apps Upon purchase you ll gain instant access to this eBook Time limit The eBooks products do not have an expiry date You will continue to access your digital ebook products whilst you have your Bookshelf installed **55264A**

Introduction to Programming Using Python Neil Tucker, Jr., 2023-05-17 This five day instructor led course is intended for students who want to learn how to write Python code that logically solves problems Candidates will learn how to write debug and document Python code Lab exercises are done with cloud resources web sites databases virtual machines etc created by students To ensure that students are able to use their knowledge for real world applications they use free resources on Microsoft Azure s cloud platform to create web sites databases Blobs virtual machines and other objects Students may

continue to use these resources after the class When necessary updates to the student materials will be freely accessible by current and past students on GitHub <https://github.com/neiltucker/55264A>

Introduction to Programming Using Python Jacob Mason, 2017-06-03 Introduction to Programming Using Python is intended for use in the introduction to programming course Jacob Mason is known for his fundamentals first approach to teaching programming concepts and techniques Fundamentals first means that students learn fundamental programming concepts like selection statements loops and functions before moving into defining classes Students learn basic logic and programming concepts before moving into object oriented programming and GUI programming Another aspect of Introduction to Programming Using Python is that in addition to the typical programming examples that feature games and some math Jacob Mason gives an example or two early in the chapter that uses a simple graphic to engage the students Rather than asking them to average 10 numbers together they learn the concepts in the context of a fun example that generates something visually interesting Using the graphics examples is optional in this textbook Turtle graphics can be used in Chapters 1 5 to introduce the fundamentals of programming and Tkinter can be used for developing comprehensive graphical user interfaces and for learning object oriented programming

Introduction to Programming Using Python Y. Daniel Liang, 2013 Introduction to Programming Using Python is intended for use in the introduction to programming course Daniel Liang is known for his fundamentals first approach to teaching programming concepts and techniques

Python for Serious Beginners Harry Yoon, Are You Looking for a Good Python Programming Tutorial Then this book is for you This book provides the most comprehensive introduction to programming in Python for beginning programmers like you You will learn real proper Python programming from this book from the absolute basics to more advanced difficult topics This book will teach you The fundamentals of programming and The core Python language basics Regardless of how much or how little programming experience you have after learning proper Python using this book you will be able to read and understand various Python programs and you will be able to write simple fully functioning programs For real Pick up this book and start learning real software development in Python Today Python for Serious Beginners will give you the best introduction to programming in Python whether you are coming from a different programming language background or you are learning programming for the first time This book covers all the essential features of Modern Python Python 3 10 3 11 through carefully designed code examples Python for Serious Beginners starts from the absolute basics such as how to install the Python tools on your machine and how to use the Python interactive shell and it covers all the key concepts of Python 3 with enough depth to be useful even to the experienced programmers Python for Serious Beginners is rather unique in that throughout the book we cover the fundamentals of Python programming while working on a few simple but real programming projects The book also includes a few lab sessions with a number of practical exercises in which the readers can practice real hands on programming Order your copy now and start learning real Python programming today From Zero to Hero This book covers the following topics among others How to

install Python locally on your machine How to effectively use the Python REPL interactive shell The basic structure of a Python program Python modules and packages Basic constructs of Python such as expressions and statements Simple builtin data types e g as integer float bool and string Complex builtin data types e g list tuple and dictionary Objects Variables and assignments Immutability vs mutability Arithmetic and comparison operations Builtin functions and methods e g print input type etc Loops using the for and while statements if else conditional expressions and statements The new match statement Structural pattern matching New as of 3 10 How to define a function using the def statement How to define a custom type using the class statement How to create a new enum type Typing and type annotations Fundamental concepts of programming such as recursion Object oriented programming OOP Basic software development process Smart people will most likely pick up this book and end up learning real solid Python programming

Exam 98 381 Introduction To Programming Using Python: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the engaging narratives that have captivated audiences this year. Exam 98 381 Introduction To Programming Using Python : Colleen Hoover's "It Ends with Us" This poignant tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Uncover the Best : Taylor Jenkins Reid's "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reid's compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Exam 98 381 Introduction To Programming Using Python : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and suspenseful novel that will keep you speculating until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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