Python Exercise for beginner and itermediate (Interview Quesion Answer)

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Exercise 1: Write a Program to extract each digit from an integer in the reverse order. For example, If the given int is 7536, the output shall be "6 3 5 7", with a space separating the digits.

In [1]:

```
1  k=""
2  n=input("enter the number: ")
3  y=n[::-1]
4  Data=k.join(y)
5  print(Data)
```

enter the number: 2009
9002

Excercise 2: Write a program that will tell whether the given number is divisible by 3 & 6.

In [2]:

```
1  num = int(input("enter the number"))
2
3  if num%3==0 and num%6==0:
4      print("the number is divisible by 3 and 6")
5  else:
6      print("the number is not divisible by 3 and 6")
7
8
```

enter the number85
the number is not divisible by 3 and 6

Exercise 3: Display float number with 2 decimal places using print()

In [3]:

```
1  num=78.87107
2  num=float(round(num,2))
3  print(num)
4
```

78.87

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J Dewey

Python Exercises With Solutions:

    Python in Practice Leila Essannouni,2023-07-10 This book is a comprehensive guide to learning Python programming designed to support students in developing their programming skills By following this guide and completing the exercises readers will develop a strong foundation in Python programming and gain confidence in tackling programming challenges Whether you are a beginner or an experienced programmer this book serves as a valuable resource for mastering Python and advancing your programming abilities The book is divided into seven chapters Chapter 1 Variables Conditions and Loops Chapter 2 Functions Lists and Lambda Functions Chapter 3 Strings Chapter 4 Dictionaries Tuples and Sets Chapter 5 Files Chapter 6 Recursion Chapter 7 Practice Exercise Data Structures   *Python 3* Assad Patel,2020-01-31 I was very frustrated with IT Books The main issue with all book dealing with Python is poorly leveled So I ve tried to make a book for everyone You don t nee any background to understand it Python is for everyone   **The Python Workbook** Ben Stephenson,2019-07-05 This student friendly textbook encourages the development of programming skills through active practice by focusing on exercises that support hands on learning The Python Workbook provides a compendium of 186 exercises spanning a variety of academic disciplines and everyday situations Solutions to selected exercises are also provided supported by brief annotations that explain the technique used to solve the problem or highlight a specific point of Python syntax This enhanced new edition has been thoroughly updated and expanded with additional exercises along with concise introductions that outline the core concepts needed to solve them The exercises and solutions require no prior background knowledge beyond the material covered in a typical introductory Python programming course Features uses an accessible writing style and easy to follow structure includes a mixture of classic exercises from the fields of computer science and mathematics along with exercises that connect to other academic disciplines presents the solutions to approximately half of the exercises provides annotations alongside the solutions which explain the approach taken to solve the problem and relevant aspects of Python syntax offers a variety of exercises of different lengths and difficulties contains exercises that encourage the development of programming skills using if statements loops basic functions lists dictionaries files and recursive functions Undergraduate students enrolled in their first programming course and wishing to enhance their programming abilities will find the exercises and solutions provided in this book to be ideal for their needs   **Think Python** Allen Downey,2012-08-13 How to think like a computer scientist Cover   Learning Scientific Programming with Python Christian Hill,2020-11-12 Learn to master basic programming tasks from scratch with real life scientifically relevant examples and solutions drawn from both science and engineering Students and researchers at all levels are increasingly turning to the powerful Python programming language as an alternative to commercial packages and this fast paced introduction moves from the basics to advanced concepts in one complete volume enabling readers to gain proficiency quickly Beginning with general programming concepts such as loops and functions within the core Python 3 language and

moving on to the NumPy SciPy and Matplotlib libraries for numerical programming and data visualization this textbook also discusses the use of Jupyter Notebooks to build rich media shareable documents for scientific analysis The second edition features a new chapter on data analysis with the pandas library and comprehensive updates and new exercises and examples A final chapter introduces more advanced topics such as floating point precision and algorithm stability and extensive online resources support further study This textbook represents a targeted package for students requiring a solid foundation in Python programming **Basics of Programming and Algorithms, Principles and Applications** Roberto Mantaci,Jean-Baptiste Yunès,2024-07-22 This textbook offers an introduction to topics in algorithms and programming with python It is originally intended for mathematical students not sufficiently aware about these computer science fields seeking a deeper understanding It addresses fundamental questions on how to analyze the performance of an algorithm and equips readers with the skills to implement them using python The textbook is organized in two parts Part I introduces Python Programming offering a solid foundation to python essentials Topics covered include first steps in python programming programs functions and recursion data structures Part II shifts focus to Algorithms and covers topics such as algorithm performance recursion the sorting problem trees as data structures etc This book has its origins from several different courses given in the context of thematic schools to diverse audiences in different countries over the years These countries include Cambodia Kenya and Madagascar **Python for Software Design** Allen Downey,2009-03-09 Python for Software Design is a concise introduction to software design using the Python programming language The focus is on the programming process with special emphasis on debugging The book includes a wide range of exercises from short examples to substantial projects so that students have ample opportunity to practice each new concept **Python Workout** Reuven M. Lerner,2020-07-02 The only way to master a skill is to practice In Python Workout author Reuven M Lerner guides you through 50 carefully selected exercises that invite you to flex your programming muscles As you take on each new challenge you ll build programming skill and confidence Summary The only way to master a skill is to practice In Python Workout author Reuven M Lerner guides you through 50 carefully selected exercises that invite you to flex your programming muscles As you take on each new challenge you ll build programming skill and confidence The thorough explanations help you lock in what you ve learned and apply it to your own projects Along the way Python Workout provides over four hours of video instruction walking you through the solutions to each exercise and dozens of additional exercises for you to try on your own Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the technology To become a champion Python programmer you need to work out building mental muscle with your hands on the keyboard Each carefully selected exercise in this unique book adds to your Python prowess one important skill at a time About the book Python Workout presents 50 exercises that focus on key Python 3 features In it expert Python coach Reuven Lerner guides you through a series of small projects practicing the skills you need to tackle everyday tasks You ll appreciate

the clear explanations of each technique and you can watch Reuven solve each exercise in the accompanying videos What s inside 50 hands on exercises and solutions Coverage of all Python data types Dozens more bonus exercises for extra practice About the reader For readers with basic Python knowledge About the author Reuven M Lerner teaches Python and data science to companies around the world Table of Contents 1 Numeric types 2 Strings 3 Lists and tuples 4 Dictionaries and sets 5 Files 6 Functions 7 Functional programming with comprehensions 8 Modules and packages 9 Objects 10 Iterators and generators **Towards a Synergistic Combination of Research and Practice in Software Engineering** Piotr Kosiuczenko,Lech Madeyski,2017-08-04 This book reports on recent advances in software engineering research and practice Divided into 15 chapters it addresses languages and tools development processes modelling simulation and verification and education In the first category the book includes chapters on domain specific languages software complexity testing and tools In the second it reports on test driven development processing of business rules and software management In turn subsequent chapters address modelling simulation and verification of real time systems mobile systems and computer networks and a scrum based framework The book was written by researchers and practitioners the goal being to achieve a synergistic combination of research results achieved in academia and best practices used in the industry and to provide a valuable reference guide for both groups *Python for Biologists* Martin Jones,2013 Python for biologists is a complete programming course for beginners that will give you the skills you need to tackle common biological and bioinformatics problems **100 Mathematical Python Coding Exercises with Solutions Keys** Adrian Mihail Corbuleanu,2020-11-05 The Math Python ebook arrived This is a great ebook for middle school and high school teachers It contains algebraic hands on exercises in Python Here are the 10 Chapters of this e book Chapter 1 Mean mode median standard deviation min max palindromes FibonacciChapter 2 Probabilities lists of numbers sorting algorithms specialized functionsChapter 3 Probabilities and lists of numbersChapter Chapter 4 General algebraic exercises logs sqrt GCD modulo lists factorials permutations golden ratioChapter Chapter 5 Linear equations Chapter Chapter 6 The quadratic equation Chapter 7 Frequency tables and histograms Chapter 8 Fractional and negative exponentsChapter 9 Exponential functions and geometrical progressionsChapter 10 Polynomials and operations with polynomialsThe objective of these problems is to prepare the students for a Data Science courses The level is intermediate the students have to have basic knowledge of coding in Python before approaching this material The book can be used at different levels depending on where your students are middle school high school and even college Each problem contains the text of the problem the Python code of two solutions the procedural solution and the object oriented solutionFor teachers interested in a Word version of the book that is available upon purchase *Python Math* Mofeed Abouseafa,2021-01-09 Python Workbook I. T. C. ACADEMY,2020-03-25 Would you like to learn python in a fun and practical way Would you like to impress your friends with the programs you can make from scratch What are you waiting for Keep reading In Python Workbook Learn Python Well and

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believing that consistent practice is essential for building programming confidence By focusing on foundational concepts these exercises will not only improve your understanding but also enhance your ability to write more complex and efficient scripts over time With dedication this book can help you move beyond the beginner stage and take your first steps toward writing professional grade Python code   **Microsoft SQL Server 2019: A Beginner's Guide, Seventh Edition** Dusan Petkovic,2020-01-03 Publisher s Note Products purchased from Third Party sellers are not guaranteed by the publisher for quality authenticity or access to any online entitlements included with the product Get Up to Speed on Microsoft SQL Server 2019 Quickly and Easily Start working with Microsoft SQL Server 2019 in no time with help from this thoroughly revised practical resource Filled with real world examples and hands on exercises Microsoft SQL Server 2019 A Beginner s Guide Seventh Edition starts by explaining fundamental relational database system concepts From there you ll learn how to write Transact SQL statements execute simple and complex database queries handle system administration and security and use powerful analysis and reporting tools New topics such as SQL and JSON support graph databases and support for machine learning with R and Python are also covered in this step by step tutorial Install configure and customize Microsoft SQL Server 2019 Create and modify database objects with Transact SQL statements Write stored procedures and user defined functions Handle backup and recovery and automate administrative tasks Tune your database system for optimal availability and reliability Secure your system using authentication encryption and authorization Work with SQL Server Analysis Services Reporting Services and other BI tools Gain knowledge of relational storage presentation and retrieval of data stored in the JSON format Manage graphs using SQL Server Graph Databases Learn about machine learning support for R and Python

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