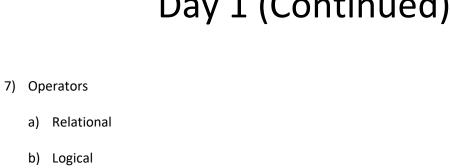
| 1) | Introduction | | | | |
|----|-----------------------------|--|---|--|--|
| 2) | Understanding of Python | | | | |
| | a) | Wh | at is python? | | |
| | b) | Inte | erpreted languages | | |
| | c) | Αd\ | vantages and disadvantages | | |
| | d) | Wh | y python is required? | | |
| | e) | Pyt | hon versions | | |
| | f) | Pyt | hon documentation and help | | |
| 3) | Pyt | ython Environment Set-up and Installation - Anaconda | | | |
| 4) | Where to find documentation | | | | |
| 5) | Jup | Jupyter Notebook Overview | | | |
| 6) | Python Basics | | | | |
| | a) | Usi | sing the interpreter interactively | | |
| | b) | Rur | unning standalone scripts under Unix and Windows - shebang line | | |
| | c) | Dat | ata Types | | |
| | | i) | Numbers | | |
| | | ii) | Strings | | |
| | | iii) | Lists | | |
| | | iv) | Dictionaries | | |
| | | v) | Booleans | | |
| | | vi) | Tuples and Sets | | |
| | | | | | |

Day 1 (Continued)



- 8) If, elif and else Statements
 - a) Indentations
 - b) If ...
 - c) If ... else..
 - d) If Else... if .. else ...
 - e) If ... elif...else
- 9) Loops
 - a) For (Finite loop)
 - b) While (Infinite loop)
 - c) Break
 - d) Pass
 - e) Continue

- 10) Python Sequences
 - a) List
 - b) Tuple
 - c) Dictionary
 - d) Set
- 11) List Comprehensions in Python
- 12) Working with Functions
 - a) Overview of Function
 - b) Function with parameters
 - c) Positional arguments
 - d) Keyword arguments
 - e) Scope of variables
- 13) Working with Files
 - a) Text file I/O overview
 - b) Opening a text file
 - c) Reading text files
 - d) Writing to a text file
 - e) Using the pickle module

| 14) Using Pandas Package in Python | | | | | |
|------------------------------------|-----------------------------|-------------------------------|--|--|--|
| | a) | Introduction | | | |
| | b) | Installation of Python | | | |
| | c) | Series | | | |
| | d) | DataFrames | | | |
| | e) | Missing Data | | | |
| | f) | Exercises | | | |
| 15) Sorting | | | | | |
| | a) | The sorted() function | | | |
| | b) | Alternate keys | | | |
| | c) | Multiple keys - itemGetter | | | |
| | d) | Lambda functions | | | |
| 16) Working with Modules | | | | | |
| | a) | How import built modules | | | |
| | b) | Creating User defined Modules | | | |
| 17) | 17) Working with Exceptions | | | | |
| | a) | Try | | | |
| | b) | Except | | | |
| | c) | Else | | | |
| | d) | Finally | | | |

18) Regular Expressions

19) Django Basics

- a) Overview and Basics
- b) Environment Setup
- c) Creating a Project
- d) Database Setup
- e) Lifecycle of Apps

20) Admin Interface

- a) Creating Admin Interface
- b) Explore the Admin Functionality
- c) Admin Form Customization

21) Templates

- a) Customizing Templates
- b) Creating Templates

22) Views

- a) What are Views?
- b) How to create views?

23) Django URL

- a) What is a URL
- b) How do URLs work in Django?
- c) URL Mapping
- d) URL Routing

24) Models

- a) Creating Models
- b) Create tables for models in database
- c) Activating Models
- 25) Page Redirection
- 26) Sending Emails
- 27) Form Creation
- 28) Customize App Look and Feel
- 29) Creating Django Web Application
 - a) Starting a Project
 - b) Creating an Application
 - c) Create Data Model
 - d) Design URLs
 - e) Custom Views
 - f) Create Application Templates
 - g) Create Forms
 - h) Schema Migration
 - i) Image Field in Data Model