TECH ADDA

PYTHON

1.1 **Introduction to Python.**
- Installation & Environment settings.
- Introduction to Shell.

1.2 **Variables, Keywords, Data types and Identifiers.**
- Variables
- Keywords
- Data types
- Identifiers

1.3 **String, List, Set, Tuple and Dictionary and Slicing**
- String Data types
- List Data types
- Set Data types
- Tuple Data types
- Dictionary Data types
- Slicing

1.4 **Operators**
- Arithmetic Operators
- Logical Operators
- Relational Operators
- Bitwise operators
- Assignment Operators
- Membership Operators
- Identity Operators

1.5 **Control Statements**
- Decisional Statements
- Looping Statements
- Break, Continue and Pass

1.6 **Input and Print Statements**
- Input statements
- Print statements

1.7 **Functions or Methods**
- Types of Functions
- Recursion
- Arguments
- Packing and unpacking(varargs)

1.8 **Oops**
- Class, Objects
- Inheritance
- Method Overriding
- Access Specifies

1.9 **File Handling and Json**
- Flat File Handling
- Json
- Pickle

1.10 **Exception Handling**
- Try
- Except and final
- Custom Exceptions
- Raising Exceptions
- Assertions

1.11 **Comprehension**

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- List Comprehension

1.12 **Decorators**
- Method
- Class Level

1.13 **Map, Filter and Lambda Expressions**

1.14 **Iterators and Generators**

<u>Selenium</u>

1. Introduction to automation

2. Introduction to selenium

3. Installation of selenium and setting-up the Environments

4. Invoking the test-cases in various browsers

5. Browser related operations

6. HTML and CSS basics

7. Identification of elements

8. Locators
- Id
- Name
- Class Name
- Tag-name
- Link text
- Partial link-text
- CSS selectors
- XPATH

9. Finding element
- Using find element
- Using By Class

10. Finding Multiple elements

11. Select class

12. Selenium Action Class

13. Handling Frames and Windows

14. Pop-up Handling

15. Taking Screenshots

16. Unit-Test Frameworks

17. Pytest Frameworks

18. Page Object Model

19. Data Driven Frameworks

20. Keyword Driven Frameworks

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