

# Python Basics

Introduction to Python, Python Data  
Structure and Python Programming  
Fundamentals

# Disclaimer

Participant(s) (“You”) understand, agree and acknowledge that:

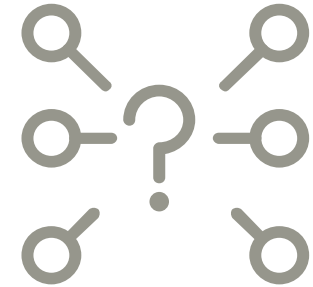
1. This course contains links to websites owned and/or operated by third parties;
2. Accenture does not control and is not responsible for the content or services provided by these third-party websites; and
3. You are solely responsible for determining whether to access such sites and/or agree to any relevant terms and conditions.



# What is in it for you?

This document consists of informative web sources/links to strengthen your understanding of Python. The topics covered are:

- Python basics
- Python data structure
- Python programming fundamentals



# Agenda

Impart basic Python knowledge required for developing AI proficiency

1. Python basics
2. Python data structure
3. Python programming fundamentals

# Recommended portals for topics



[edX](#)

**Sign up** for a free account to get access.

[Coursera](#)

**Sign up** for a free account, choose “**Enroll**” and “**Audit only**” options on the course home page to access the learning.

**Note:** The links provided in the document navigate to the respective web sources and open in the same window. The users can use the back arrow in the browser, which navigates back to the beginning of the document.



# Python basics

# Python basics

## Expected outcome



After completing **Python basics**, you should be able to:

- Write programs
- Explain the different data types
- Define variables and expressions
- Explain various operators in Python
- Define and explain various string operations

## Learning essentials



Navigate to [Python basics](#) and complete the following topics:

- [Your First Program](#)
- [Types](#)
- [Expressions and Variables](#)
- [String Operations](#)

2

# Python data structure



# Python data structure

## Expected outcome

---



After completing **Python data structure**, you should be able to:

- Define and explain various operations on:
  - Lists and Tuples
  - Sets
  - Dictionaries

## Learning essentials

---



Navigate to [Python data structure](#) and complete the following topics:

- [Lists and Tuples](#)
- [Sets](#)
- [Dictionaries](#)

3

# Python programming fundamentals

# Python programming fundamentals

## Expected outcome



After completing **Python programming fundamentals**, you should be able to:

- Describe Conditions and Branching
- Explain Loops in Python
- Define functions
- Explain the usage of Modules and Packages

## Learning essentials



Navigate to [Python programming fundamentals](#) and complete the following topics:

- [Conditions and Branching](#)
- [Loops](#)
- [Functions](#)
- [Modules and Packages](#)

# Summary

Now, you are able to explain the following:

- ✓ Python basics
- ✓ Python data structure
- ✓ Python programming fundamentals

# Thank you

