Getting Started with Python

Learning Outcomes

- **Understand Python's data structures and be able to apply them.**
- **Know how variables work is able to manipulate them.**
- **Learn the use of different operators in Python.**

Prerequisites for the Student

- **Getting Started with Python - Go through the concept and solve the tasks and assessments.**

Student Activities

- **Discuss with the Mentor what you have learned.**

- **What do you know about the python language?**

- **Overview of Getting Started with Python**
  - Variables in Python
  - Data Structures in Python
  - Membership and Identity operators

- **Practice problems on variables, Data Structures and Membership and Identity Operators**
  - Refer the GitHub repo for problems

- **Quiz on getting started with python**

- **Code ALong**

- **Questions and Discussion on doubts - AMA**

Next Session

- **Concept - Handling Problem Flow with Python**

- **Key topics to be highlighted - highlight where they would need to spend more time and importance w.r.t Data Science**
  - Conditional Statements
  - Exception handling
  - The file I/O
  - Classes in Python

- **Understanding the object-oriented programming paradigm would be a little bit challenging for non-programmers.**
  Alert them to not get overwhelmed