Session Plan Day 3 ▶ Handling Program Flow in Python

Learning Outcomes

- **Work with conditional statements and loops like if-else, for, while**
- **Read and write to a file with Python**
- **Handle errors and exceptions in Python**
- **Create and work with functions**

Prerequisites for the Student

- **Handling Program Flow in Python - Go through the concept and solve the tasks and assessments.**

Student Activities

- **Discuss with the Mentor what you have learned.**
- **Overview of Handling Program flow in python**
  - Control Statements and Loops
  - What are the functions?
  - Object-Oriented Programming
  - Exceptions and File I/O
- **Write a Python program to get the Fibonacci series between 0 to 50.**
  Note: The Fibonacci Sequence is the series of numbers :0, 1, 1, 2, 3, 5, 8, 13, 21, ...
  Every next number is found by adding up the two numbers before it.
- **What are the benefits and limitations of using python?**
- **Practice problems on Control Statements and loops, Functions, Object-Oriented Programming, Exceptions and File I/O**
  - Refer the GitHub repo for problems
- **Quiz on Handling Program Flow in Python.**
- **Code Along (refer the GitHub repo)**
- **Questions and Discussion on doubts - AMA**

Next Session

- **Concept - Manipulating Data with Numpy**
- **Key topics to be highlighted - highlight where they would need to spend more time and importance w.r.t Data Science.**
  - Arrays in NumPy
  - Creating NumPy arrays
  - Indexing and Slicing NumPy arrays
  - Applying NumPy hands-on

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