

SESSION PLAN

Session Name

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
- Programming with the Object-Oriented Paradigm

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