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| **SESSION PLAN** | | | | |
| **Session Name** | | Python: Handling Program Flow | | |
| **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**  * Python: Handling Program Flow - 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? * Code Walkthrough (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 | | | | |