ACTIVITY LOG FOR THE THIRD WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day – 1 Dt. 03/04/24	Week 3 of our internship started with the core functional concepts in python, where we started learning about the concept of conditionals and how they alter the flow of execution of a program. We also gained a practical experience	→ Conditional Progamming. → If Block, If... else Block, If... elif... else Block, Syntax & working. → Short hand conditionals → Nested Conditional Branching.	
Day - 2 Dt. 05/04/24	On day 2, we dived into the concept of loops i.e iterative statements in python, which allows python to perform and automate repetitive tasks up to create loops, certain condition met.	→ Iteration & Types of Loops → While & For Loops, syntax and working. → Range function, loop control statements. → Nested statements	
Day – 3 Dt. 08/04/24	On day 3, we discussed functions in python, we learned concepts of functions and their types of declarations, built in functions, user-defined functions, and how they emphasize the modularity.	→ Function Definition, Calling, Types, → Function with & without parameters. → Function with default parameters → Function with arbitary parameters	
Day – 4 Dt. 10/04/24	On day 4, we learned the concepts of modules in python, how they allow us to organize the files and code into large single called Module/Package/Library, which further also emphasized their role in developing a project.	→ Creating, Importing Module & Importing functions from modules & renaming. → Built-in Modules like 'sys', 'os', 'math', 'random', 'string', 'statistics' etc.	
Day – 5 Dt. 12/04/24	On day 5, we learned the concept of list comprehension & lambda function, way of creating list using a single line of code & creating lambda functions which are very short-handed functions.	→ Defining, Creating, Working of List Comprehension & Lambda Functions → List Comprehension with if expression. → Lambda function inside another	
Day – 6 Dt. 15/04/24	On our finay day, we dived deep into the concepts like exception handling techniques, types of errors, raising user defined errors and more. Including that we have also covered the 'higher order functions', and how to manipolate the functions by passing them as arguments.	→ Definition, Handling Exceptions → Role of User defined exceptions, → 'try', 'except', 'finally' blocks, syntaxs & workings → Higher order functions, passing functions as an argument, returning function as a return value	

WEEKLY REPORT

WEEK – 3 (From Dt.03/04/2024 to Dt..15/04/2024)

Objective of the Activity Done: Learning and Gaining Understanding Core Python Programming & principles

Detailed Report: As of the 3rd week of our internship at IGIAT, we as interns as per training we were immersed in a thorough learning and gained an understanding the concepts of python programming like Conditionals, Looping statements, functions, Modules, List Comprehension, Lambda functions, Exception handling, Higher Order Functions.

Day 1: The first day of 3rd week started with learning the conditional branching, we taught with 'If', 'If...Else', 'If...Elif...Else' constructs with the practical exercises. exposure. Although the conceptual knowledge gain and exposure was achieved with,

Day 3: The ~~second~~ third day, we discussed functions concept in python, we learned concepts of functions & their types of declarations, built-in functions, user-defined functions, and how they emphasize the modularity of code, through some practical exposure we gained solidify knowledge. Day 2: The second day, we discussed iterative statements in python, where they allow the programmer to define the repetative tasks for upto a certain condition is met. We gained practical practice on the loops like for, While loop in python. Day 4: The 4th day, we learned the core project essential concept modules, we also learnt that modules are the essential method that helps us to manage the tasks by breaking the code in the modular pieces for repetative uses. Day 5: The 5th day, we learned about list comprehension, how does it reduces code lines in a efficient dist definition. Including that we also learnt the concept of lambda functions like how they reduce the code lines and used as a replacement of functions. Day 6: On final day of week we learned the concepts like exception handling. Like how does it plays a vital role for handling errors, and the other core concept higher order functions with its use cases.