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| Day 1  Dt. 03/04/2024 | Week 3 of our internship started with the core functional concepts of 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 hands-on experience with assigned tasks. | * Conditional Programming * If Block, Syntax, Working * If..else Blocks, Syntax, Working * If..elif..else Blocks, Syntax, Working * Short hand conditionals * Nested Conditional branching |  |
| Day 2  Dt. 05/04/2024 | On the second day of week, we dived into the concept of loops and iterative statements in python, which allows python to perform and automate repetitive tasks up to certain condition met. | * Iteration in Python and Types of loops * While & For loop – Syntax, Working * Range function role in for loop * Loop Control Statements * Break, Continue, Pass – Syntax, Working. * Nested Looping |  |
| Day 3  Dt. 08-04-2024 | On third day, we discussed functions in python. We learned the concepts of functions and their types, and recalled the built-in functions. We also gained the key insights on defining, using user defined functions and how they emphasize the modularity of programming in python. | * Function Definition, Types in Python * Declaring and Calling a Function * Functions Types * Functions with/without parameters * Functions with default parameters * Functions with arbitrary parameters |  |
| Day 4  Dt. 10-04-2024 | On this day, we learned the concepts of Modules in python, and how they allow us to organize the files and code in to large single unit called module or package or library, which further given importance to library creation, as it is primary aspect while creating any project. | * Definition, Creating Module * Importing Module * Importing functions from Modules and renaming * Importing Built-in Modules like, sys, os, math, random, string, statistics etc.. |  |
| Day 5  Dt.12-04-2024 | On the fifth day, we learned about the concept of list comprehension and lambda function, way of creating list using a single line of code as an effective way to create lists, and creating lambda functions which are very short-handed functions that are used to work like normal function. | * Definition, Creating and Working of List Comprehension and Lambda Functions * List Comprehension with an if expression. * Lambda Function inside another function. |  |
| Day 6  Dt. 15-04-2024 |  |  |  |