

ACTIVITY LOG FOR THE SECOND WEEK

Day & Date	Brief description of the daily activity	Learning Outcome	Person In-Charge Signature
Day - 1 Dt. 21/03/2024	Week 2 of our internship started with the core concepts of python, where we started learning about the concept of lists, and also learned how the organize the data, and all available operations on lists.	<ol style="list-style-type: none"> 1) List Definition, Creation, & Operations. 2) Accessing items and indexing items. 3) Unpacking, slicing, Modifyin - g list items. 	
Day - 2 Dt. 22/03/2024	On day 2, we dived deeper into the concept of lists in python, and gained a better understanding in other core list operations, which emphasized the efficient use of lists in managing data & organizing data.	<ol style="list-style-type: none"> 1) Appending & Inserting List items. 2) Removing & Clearing List items. 3) Concatenating, Copying, Extending, Sorting Lists etc., 	
Day - 3 Dt. 26/03/2024	On day 3, we discussed tuples in python. We gained an insight i.e., Tuples are similar to lists in python but they are immutable. We also gained other insights regarding the key differences of Tuples.	<ol style="list-style-type: none"> 1) Tuple definition, creation, operations. 2) Accessing, slicing, Concatenating, checking, deleting tuple items. 	
Day - 4 Dt. 27/03/2024	On this day, we learned sets in python, we gained an idea on how to create set, and the core operations on sets like accessing, checking, adding items to & from a set, and other operations etc.,.	<ol style="list-style-type: none"> 1) Set Definition, Creation, operations. 2) Intersecting, Union of sets. 3) Joining sets - difference & symmetric difference. 	
Day - 5 Dt. 01/04/2024	On the fifth day, we learned about dictionary in python, and it emphasized their role in storing key-value pairs, and their mutability of storing & organizing the data for efficient access.	<ol style="list-style-type: none"> 1) Dictionary Definition, Creation, Operations. 2) Accessing, Adding, Modifying, Checking, Removing items based on key-value pairs in a dictionary 	
Day - 6 Dt. 02/04/2024	On the final day of week, we continued to learn the other operations of dictionary, that can emphasize the arrangement of data in an efficient manner. We also gained a practical exposure of dictionary.	<ol style="list-style-type: none"> 2) Converting (dict → list) 2) Clearing, Copying, Deleting the dictionary. 3) Getting dictionary keys & values as separate lists - 4) Looping through dictionary. 	

WEEKLY REPORT

WEEK - 2 (From Dt. 21-03-2024 to Dt. 02-04-2024)

Objective of the Activity Done: Gaining an Awareness and Practice on Python Collections

Detailed Report: As of the second week of our internship at IGIAT, we as interns were immersed in a thorough awareness & practice on Concept of Python's Collections.

Day-1: At the start of week-2 we were introduced to the concepts of objects that hold a collections of data during its run time. Among overall the collections we were firstly introduced with 'Lists'. We taught that list is an mutable object that hold wide variety of data in an ordered manner, and we also gained better hands-on experiences on practical regarding lists & its operations.

Day-2: On the second day, we continued to be taught about list operations and gained a better understanding in the core list operations. Where we learned that these operations emphasized the efficient use of lists in python, and through this we also did the assigned tasks in time.

Day-3: On this day, we delved into next collection type 'Tuples', and we learnt that tuples are similar to lists in python regarding operations, except modifying, this made us to learn that tuples are immutable, along with this we also gained insight on

key differences between lists and tuples. Day: 4: Next, we started to study on sets in python, which is the third type of collection, it's ^{is} mutable, ~~and~~ unordered, collection type, and only stores unique items, no duplicates, we learned some

operations and gained hands-on experience on sets practically. Day: 5: Next, we started to learn about dictionaries in python, its properties, operations, & looping through it via practical examples. Day: 6: On final day, we also started to learn

about other core operations of dictionaries in python that emphasize the ^{data} organization.