**Python Assignment-2**

**Topic : Chapter-3 and Chapter-4**

**Submission Date : On 18th Oct 2023, Wed Time : in lecture time**

**Type: Writing and execution – Even roll no will solve even questions from each group and Odd roll no will solve odd questions from each group**

1. **Short Answer Questions**
2. What is the use of + and \* operator
3. "Modification of elements in tuple is not possible ". Justify
4. Justify, “The values of the dictionary items can be of any data type.”
5. Which methods are used to add and remove elements from set?
6. What are frozen set?
7. What is the use of in operator?
8. Compare list and tuples.
9. Define anonymous/lambda function.
10. What is difference del() and pop() function in list.
11. Explain slicing in indexing with list examples
12. Define text file in python.
13. List functions in math module.
14. What is package in python?
15. Explain continue statement in Python.
16. Explain pass statement in Python.
17. What is the use of finally keyword in Python?
18. Explain how to import libraries in Python.
19. Explain use of Doc string in user defined functions in Python.
20. **Long Answer Questions**
21. What is dictionary? Explain all the operations create, access, delete, add. Explain with an example.
22. What are negative indexing in list? Explain with example
23. Explain Regular expressions with metadata.
24. Explain exception handling in Python with example.
25. Explain set operations union, intersection and set difference with example.
26. Explain following three dictionary methods in python with syntax and example : items(), keys(), values()
27. Explain following three file handling functions/methods in python with syntax and example : file open, file read and file write
28. Describe the use of filter(), map() and reduce() functions.

Programs

1. Write a Python program to remove duplicates from a list.
2. Write a Python program to find the length of a tuple.
3. Write a Python program to find maximum and the minimum value in a set.
4. Write a Python program to sort a dictionary by key
5. Write a Python program to create an intersection of sets.