

ASSIGNMENT-1

Subject/ Subject Code	Semester/ Branch	Issue Date	Due Date
Python Programming / 01CE1705	7 th – C.E(FOT1-MU)	29-08-2023	12-09-2023

1. What is Python? Explain any five features of Python.
2. Explain the different data types of Python.
3. Explain different variations of for and while loop with range using suitable syntax and examples.
4. Explain the following Terms:
 - i) PVM
 - ii) Lambda Functions
 - iii) Mutable and Immutable Variables
 - iv) Membership Operator
5. With example explain the use of break and continue statements.
6. Difference between list, tuple and dictionaries.
7. With examples explain the use of following functions:
 - i) String: strip(), replace, format()
 - ii) List: append(),insert(),extend()
8. What are different types of Error? Explain the use of Exception handling in python using try and execute block with example.
9. Write a python program to show the concept of user defined exceptions with example.
10. Write a program to convert two lists into a dictionary.
11. Write a program that accepts a string from user and performs the following operations:
 - i) Print the string in reverse order
 - ii) Print all the odd indexed characters of the string
 - iii) Print the count of all the vowels in the string
 - iv) Print the count of the frequency of an input character in the string
12. Write a Python program to check if each number is prime in a given list of numbers. Return True if all numbers are prime otherwise False.
13. Write a program to calculate GCD of two numbers.
14. Write a Python program to compute the difference between two lists.
Sample data: ["red", "orange", "green", "blue", "white"], ["black", "yellow", "green", "blue"]
Expected Output:
Color1-Color2: ['white', 'orange', 'red']
Color2-Color1: ['black', 'yellow']
15. Write a program to print the largest and smallest number of three numbers input from user with and without using library functions.