



## Assignment No. 2

**Subject: Programming in Python**

**Class: B.Tech 6thSem**

**Date of Issue: 01.03.2024**

**Date of Submission: 06.03.3024**

**Faculty Name: Ms. Palvi Gupta/Mr. C.S Tomer/Mr. Rishabh Sharma**

**All questions are compulsory to attempt.**

**Subject Code: CIE-332T**

**Total Marks: 20**

S.No	Question	M.Marks	COs	BL
1	Construct a Python function that takes a string containing a phone number and formats it in a standardized way. The function should handle different formats and extract the country code, area code, and local number..	4	CO2	L3
2	Demonstrate lambda function along with the filter function to filter out temperatures above a certain threshold. Allow the user to input the threshold temperature.	3	CO2	L3
3	Construct a program that calls three functions: func1(), func2(), and func3(). func1() calls func2(), and func2() calls func3(). Introduce an exception in func3() and handle it in func1(). Print an error message in func1() when the exception occurs.	3	CO2	L4
4	Demonstrate a Python function that takes two numbers as input and performs division. Handle the ZeroDivisionError and ValueError exceptions. If any of these exceptions occur, print a suitable error message. Otherwise, print the result of the division.	3	CO2	L3
5	Construct a Python program that generates random passwords. Allow users to specify the length and complexity of the password (including uppercase letters, lowercase letters, numbers, and special characters). Use functions to encapsulate the password generation logic.	4	CO2	L3
6	Create a nested dictionary representing information about a library. Include details such as books, authors, and availability. Write a function to check the availability of a book based on user input.	3	CO2	L3



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