CT-2
Section : D

Course name: Object Oriented Programming II: Visual and Web Programming

Course code: CSE 309 **Marks:** 20

Time :30 minutes

Name:

ID: Date:

1.	Write a Python function called simple_calculator that takes three arguments: two numbers and an operator (as a string). The function should perform the specified operation and return the result. If the operator is not valid, it should return an error message. **Sample input** num1 = 10 num2 = 5 operator = "add" simple_calculator(num1, num2, operator) **Sample output** 15	10
2.	Write a Python function called **count_item_frequency** that takes a **list of items** and returns a **dictionary** where the keys are the items and the values are the number of times each item appears in the list. **Sample input** items = ["apple", "banana", "apple", "orange", "banana", "banana"] count_item_frequency(items) **Sample output** {'apple': 2, 'banana': 3, 'orange': 1}	10

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1.	Write a Python function called classify_grade that takes a numerical grade (as a float) as input and returns a letter grade based on the following scale: A: 90 and above B: 80 to 89 C: 70 to 79 D: 60 to 69 F: Below 60 **Sample input** grade = 85 classify_grade(grade) **Sample output** B	10

2.	Write a Python function called **find_total_marks** that takes a **dictionary** representing students and their **total marks**, and a **student's name** (as a string) as input. The function should check if the student is present in the dictionary. If the student is found, it should return their total marks. If the student is not found, it should return a message indicating that the student does not exist.
	
	Sample input
	students_marks = {
	"Alice": 85,
	"Bob": 92,
	"Charlie": 78,
	"David": 88
	}
	
	result1 = find_total_marks(students_marks, "Bob")
	
	Sample Output:
	92
		10

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1.	Write a Python function called string_formatter that takes two strings and a formatting option (as a string) as input. The options can be: "combine": to concatenate the two strings normally. "uppercase": to concatenate the two strings in uppercase. "lowercase": to concatenate the two strings in lowercase. "reverse": to concatenate the second string to the first but in reverse order. **Sample input** string1 = "Hello" string2 = "World" option = "uppercase" string_formatter(string1, string2, option) **Sample output** 'HELLOWORLD'	10

2.	Write a Python function called **delete_contact** that takes a dictionary representing the **contact book** and **a name** (as a string) and **a phone number** (as a string). The function should delete the contact from the dictionary and return the updated dictionary. If the contact does not exist, it should print a message 'The phone number does not exist'.
	
	Sample input
	contact_book = {
	"Alice": "123",
	"Bob": "987"
	}
	
	delete_contact(contact_book, "Alice", "123")
	
	Sample output
	{"Bob": "987"}
		10