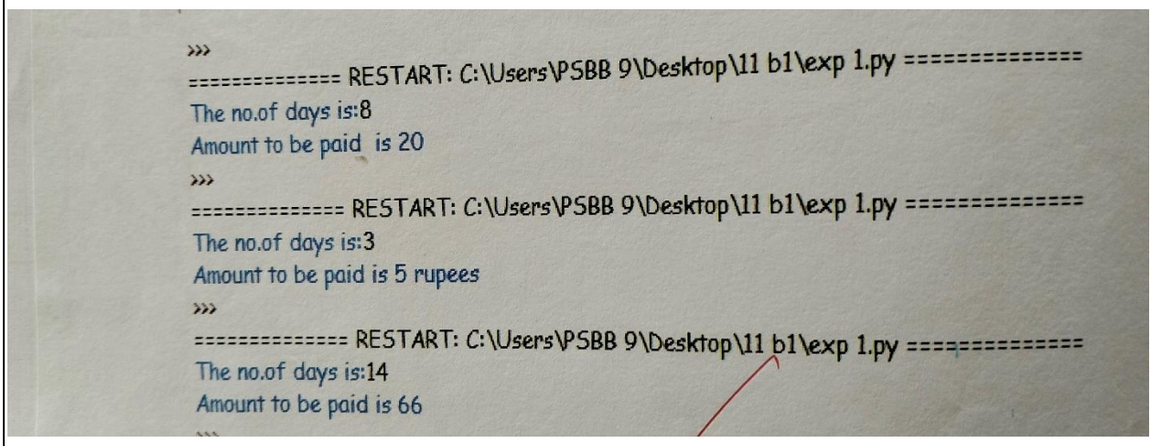
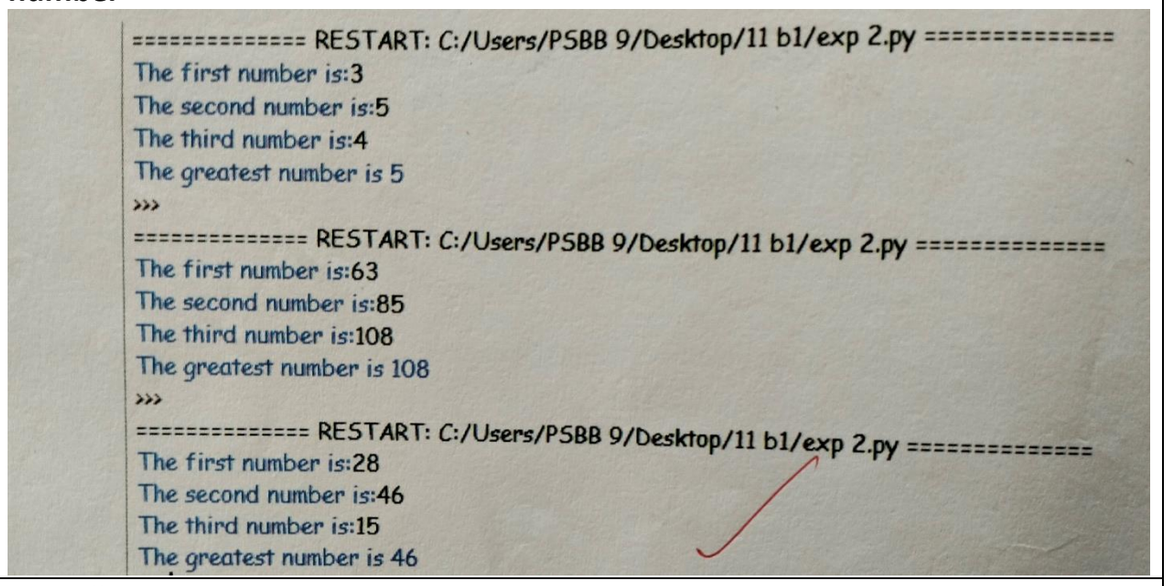
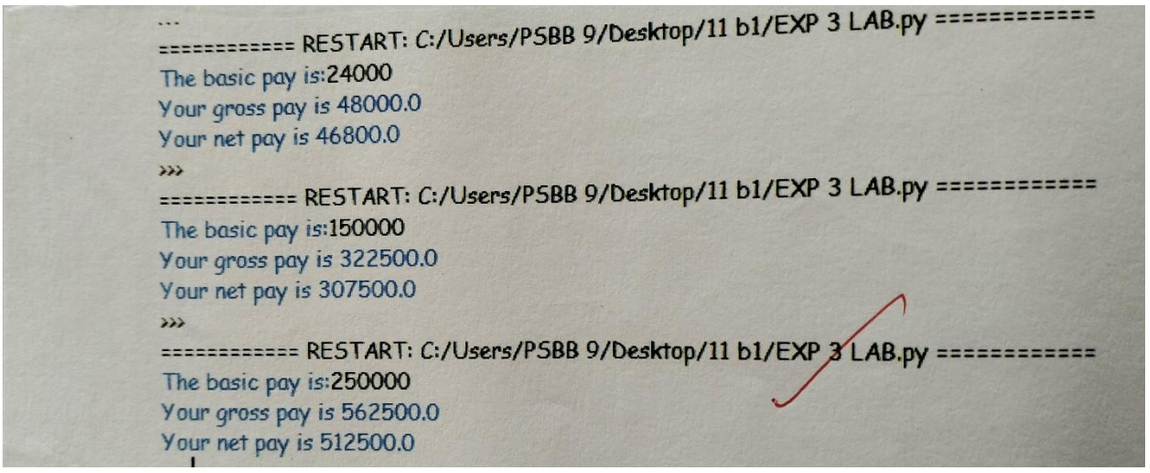
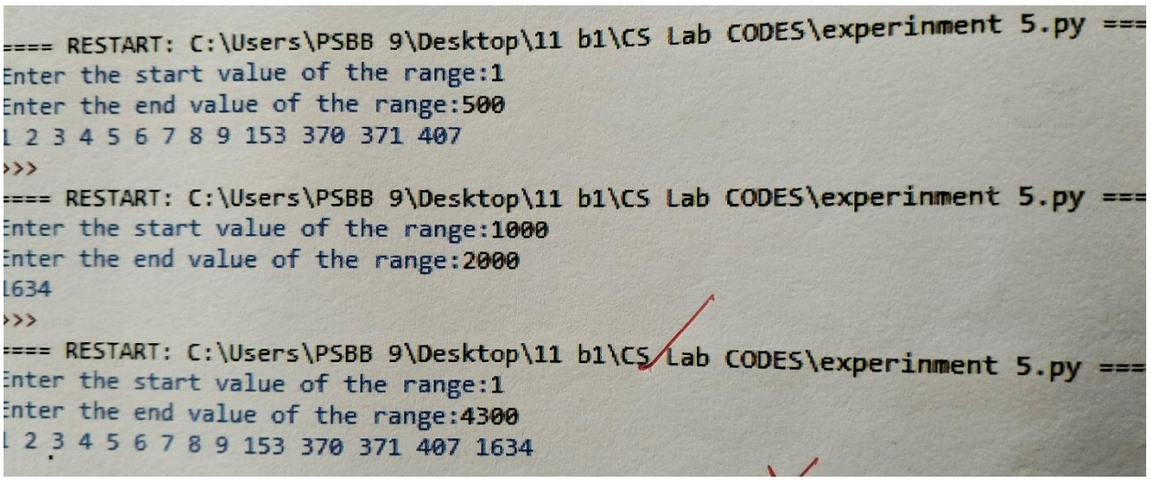
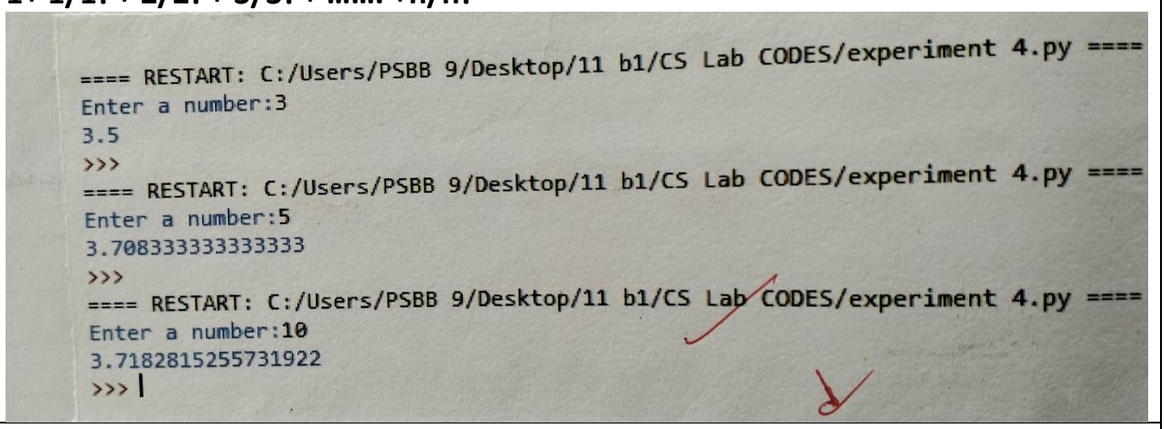
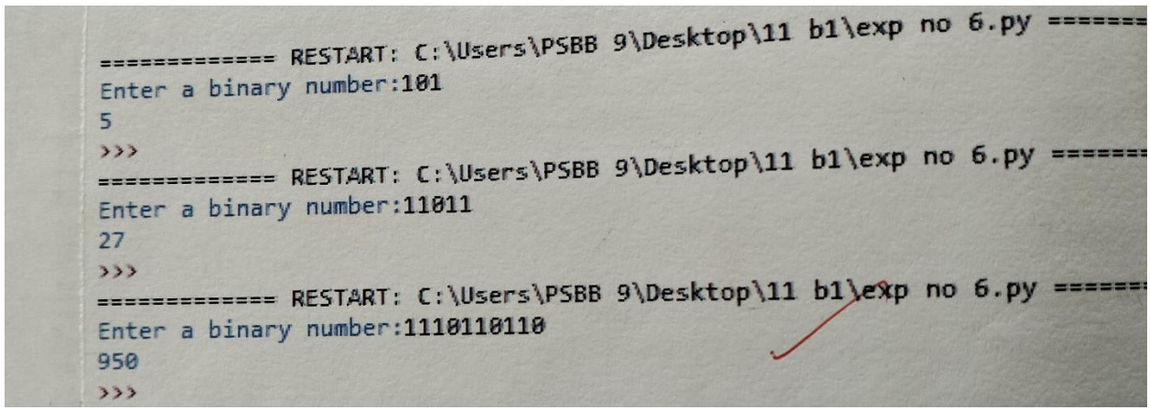
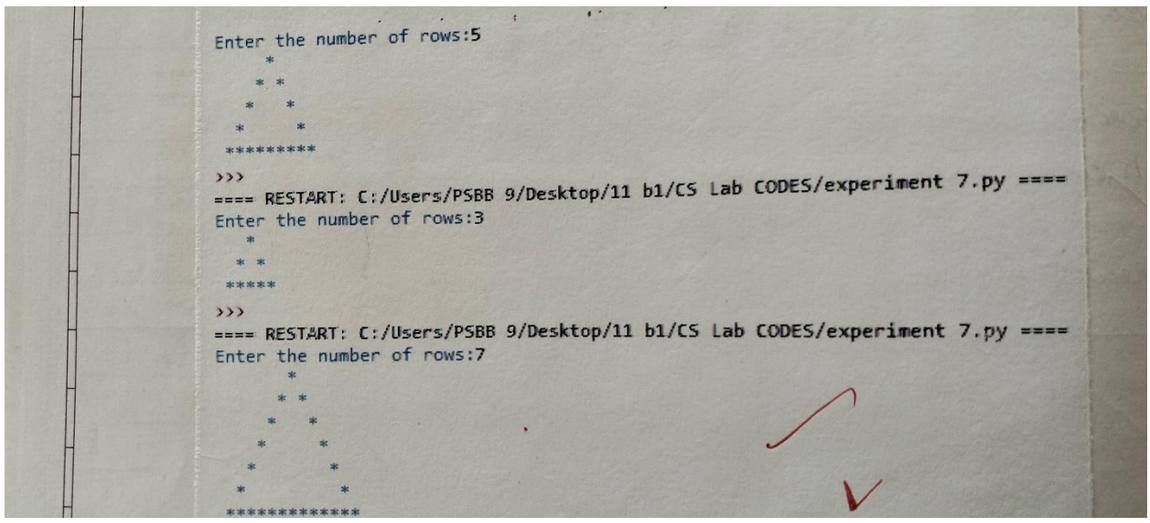
EX.NO	QUESTIONS
1	**Library charges** **Write a program to calculate the library charges for a user after reading a book for the number of days he keeps the book as per the following criteria.** **1st 3 days - Rs.5 (1 - 3)** **Next 1 week – Rs. 3 per day (4 - 10)** **After that - Rs. 10 per day** 
2	**Greatest of three numbers** **Write a program to obtain three numbers as user input and display the greatest number** 
3	**Payroll** **Write a program to calculate the net salary of a person based on the basic salary according to the following criteria.** **If Basic salary <=10000:** **HRA = 20%** **DA = 80%** **PF = 5%** **If Basic salary <=20000** **HRA = 25%** **DA = 90%** **PF = 10%** **If Basic salary >200000**

	HRA = 30% **DA = 95%** **PF = 20%** **Grosspay = Basic+HRA+DA** **Netpay = Grosspay-PF** 
4	**<u>Armstrong Numbers</u>** **Write a program to display the Armstrong numbers in a given range.** 
5	**<u>Sum of Series</u>** **Write a program to calculate the sum of the following series** **1+ 1/1! + 2/2! + 3/3! + ……. +n/n!** 
6	**<u>Binary to Decimal</u>** **Write a program to convert a given binary number obtained as user input to decimal**

	
7	**Hollow Triangle** **Write a program to display a hollow triangle with the number of rows entered as user input.** 
8	**String Manipulation -I** **Write a program to count and display the number of vowels in a given string.**
9	**String Manipulation -II** **Write a program to count the number of uppercase, lowercase, digits and special characters in a given string.**
10	**List Manipulation** **Write a menu driven program to read a list of integers in ascending order as user input and do the following operations.** **1. Insert an element** **2. Delete all occurrence of an element** **3. Display the list.**
11	**Nested list:** **Write a menu driven program to do the following in a nested list with structure Rollno, Name, Percentage, Remarks.** **1. Append** **2. Delete by roll** **3. Edit marks by Roll** **4. Class average percentage** **5. Display**
12	**Tuples:**

	Write a menu driven program to insert and delete one element in a tuple **1. Insert** **2. Delete** **3. Display**
13	**<u>Nested Tuples</u>** **Write a program to display the mean of each element in a nested tuple and the mean of means.**
14	**<u>Dictionaries-I</u>** **Write a program to create a dictionary with a key-value pairs(name and phone number) given as user input. Then perform the following operations using a dictionary.** **1. Add** **2. Modify by name** **3. Delete by name** **4. Display by name** **5. Exit**
15	**<u>Dictionaries-II</u>** **Write a program to create a dictionary with name and marks for 10 students and do the following:** **1. Display class average** **2. Display names of students with highest and lowest marks** **3. Display the names of students who scored greater than 75** **4. Display the names of students who scored less than 40** **5. Display the names and marks in descending order of marks.**