19/9/25

Task No: 7 → utilising 'Function' concepts in python programming

a) Simple Banking System

Aim:- To develop a python program using functions that simulates basic banking operation – deposit, withdrawal with balance check, and balance display – for a user account.

Algorithm:

1. Start
2. Initialize balance = 0
3. Define deposit (amount) → add to balance
4. Define withdraw (amount) → Subtract if enough balance
5. Define display_balance () → Show balance
6. Loop : Show menu, take user choice, call function
7. End when user chooses Exit.

Program Code

```
balance = 0
def deposit (amt):
    global balance
    balance += amt
def withdraw (amt):
    global balance
    if amt <= balance:
        balance -= amt
    else:
        print ("Insufficient balance")
def display():
    print ("Balance :", balance)
while True:
```

Output:

--- Simple Banking System ---
1. Deposit
2. Withdraw
3. Display Balance
4. Exit

Enter your choice (1-4) : 1
Enter amount to deposit : ₹ 1000
₹ 1000 deposited Successfully

Enter your choice (1-4) : 2
Enter amount to withdraw : ₹ 500
₹ 500 withdraw Successfully.

Enter your choice (1-4) : 3
Current Balance : ₹ 500

Enter your choice (1-4) : 4
Thanking you for using the banking System.

```
print ("\n1. Deposit 2. Withdraw 3. Display 4. Exit")
ch = input ("choice:")
if ch=='1':
  deposit (int(input("Amount to deposit :")))
elif ch=='2':
  withdraw (int(input("Amount to withdraw:")))
elif ch=='3':
    display()
elif ch=='4':
   break
else:
   print ("Invalid choice:")
```

Result :- Thus, python program to develop and implement Simple banking System is implemented & executed Successfully.

Task 7(b): Student performance Evaluator 19/9/25

Aim: To create a python program using function that evaluates a Student's performance based on marks in three subject, calculate total, average and assign a grade.

Algorithm:

1. Start
2. Input marks for 3 Subject
3. Define calculate_total (m1, m2, m3) → return total
4. Define calculate_average (total) → return average
5. Define assign_grade (avg) → return grade based on average
6. Define display_result (total, avg, grade) → print result
7. Call functions and show output
8. End

program:

```
def calculate_total (m1, m2, m3):
    return m1+m2+m3

def calculate_average (total):
    return total/3

def assign_grade (avg):
    if avg >= 90:
        return 'A'
    elif avg >= 75:
        return 'B'
    elif avg >= 50:
        return 'C'
    else:
        return 'Fail'

def display_result (total, avg, grade):
    print ("Total :", total)
    print ("Average :", Avg)
    print ("Grade :", grade)
```

Sample output :

Enter mark 1 : 85
Enter mark 2 : 78
Enter mark 3 : 92
Total : 255
Average : 85.0
Grade : B

```
m1 = int(input("Enter mark 1:"))
m2 = int(input("Enter mark 2:"))
m3 = int(input("Enter mark 3:"))

total = calculate_total(m1, m2, m3)
avg = calculate_average(total)
grade = assign_grade(avg)
display_result(total, avg, grade)
```

VELTECH	
EX No.	1
PERFORMANCE (5)	5
RESULT AND ANALYSIS (3)	5
VIVA VOCE (3)	5
RECORD (4)	
TOTAL (15)	15
SIGN & DATE	

Result:

Thus, python program using functions that evaluate a student's performance based on marks in three subject is executed successfully.