Date : 10/04/25

Task No 7 : Utilizing 'Functions' concepts on Python Programming.

7a) Aim: To create a basic banking transaction system in Python that utilizes functions to manage deposits, withdrawals and balance enquiries for a single account.

Algorithm:

1) Initialize amount Balance
2) Define deposit() function:
3) Define withdrawal() function:
4) Define check_balance() function
5) Main Program Flow (user interaction).

Program:-

```
balance = 0.0 # global balance
def deposit(amount):
    global balance
    balance += amount
    print("Deposited:", amount, "New Balance:", balance)

def withdraw(amount):
    global balance
    if amount <= balance:
        balance -= amount
        print("withdrawn:", amount, "New Balance:", balance)
    else:
        print("Insufficient balance!")

def check_balance():
    print("Current Balance:", balance)

while True:
    print("\n1. Deposit \n2. withdraw \n3. check
    Balance \n4. Exit")
```

Output:

1. Deposit
2. withdraw
3. check balance
4. Exit

Enter your choice: 1
Enter amount to deposit: 1000
Deposited: 1000.0 New Balance: 1000.0

1. Deposit
2. withdraw
3. check Balance
4. Exit

Enter your choice: 2
Enter amount to withdraw: 100
withdrawn: 100.0 New Balance: 900.0

1. Deposit
2. withdraw
3. check Balance
4. Exit

Enter your choice: 3
Current Balance: 900.0

1. Deposit
2. withdraw
3. check Balance
4. Exit

Enter your choice: 4
Exiting... Thank you!

```
choice = int(input("Enter your choice:"))
if choice == 1:
    amt = float(input("Enter amount to deposit:"))
    deposit(amt)
elif choice == 2:
    amt = float(input("Enter amount to withdraw:"))
    withdraw(amt)
elif choice == 3:
    check_balance()
elif choice == 4:
    print("Exiting... Thank you!")
    break
else:
    print("Invalid choice!")
```

Result: Update account balance, records transaction details & ensure accurate and secure management of customer account.

7.2 :- Student Result Calculator

Aim: To calculate the total marks, percentage, and grade of a student based on their subject wise marks.

Algorithm:

1. Start
2. Input student name, and marks for each subject.
3. Calculate the total marks.
4. Display total marks, percentage and grade.
5. End.

Program:

```
# input
name = input ("Enter Student name:")
maths = int (input ("Enter Maths marks:"))
science = int (input ("Enter science marks:"))
english = int (input ("Enter english marks:"))
# Bonus
total = maths + science + english
Percentage = (total / 500) * 100
# grade calculation
if percentage >= 90;
    grade = "A"
elif percentage >= 75;
    grade = "B"
elif percentage >= 60;
    grade = "C"
elif percentage >= 50;
```

Output:

Enter student name : Ravi

Enter math marks : 85

Enter science marks : 78

Enter english marks : 90

Student name : Ravi

Total marks : 253

Percentage : 84.33

grade : B

grade = "D"

else:

grade = "F"

VEL	
EX NO	
PERFORMANCE (5)	
RESULT AND ANALYSIS (5)	
VIVA VOCE (5)	
RECORD (5)	
TOTAL (20)	15
SIGN WITH DATE	

Result: The Student Result Calculator takes student marks as input and computes the total, average, and grade, displays total marks obtained & calculates average successfully done.

27/10/25