01/12/25

7. Utilizing 'functions' Concepts in Python Programming.

(a). Banking Transaction system.

Aim:- To develop a Python program using functions that simulates basic banking transactions: deposit, withdraw, and checking the account.

Algorithm:-

1. Initialize account balance to zero.
2. Define a function to deposit money, while increasing the Balance.
3. Define a function to withdraw money, checking if the Balance is sufficient.
4. Define a function to display the current balance.
5. Use menu — driven options to perform deposit, withdraw, and balance check actions.

Python Program:-

```
balance = 0
def deposit(amount):
    global balance
    balance += amount
    print("Deposited:", amount)
def withdraw(amount):
    global balance
    if amount <= balance:
        balance -= amount
        print("withdrawn:", amount)
    else:
        print("Insufficient Balance")
def check_balance():
    print("Current 'Balance:", balance)
```

Output:-

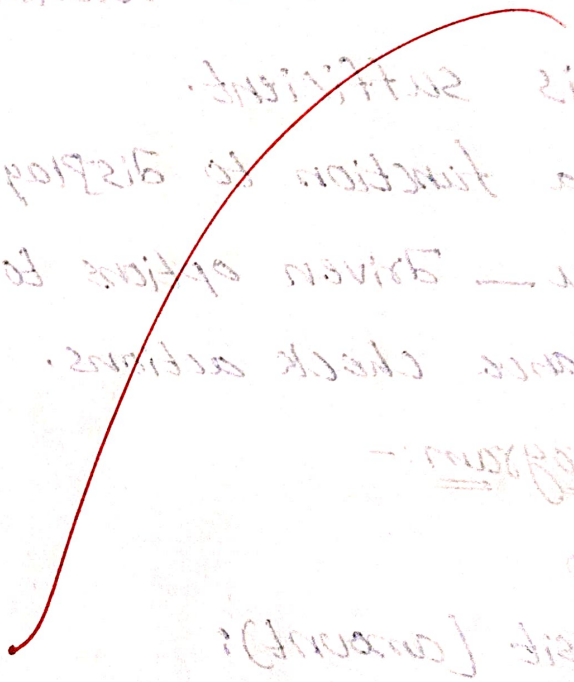
Deposited: 500

Withdrawn: 200

Current Balance: 300

Insufficient Balance.

Current Balance = 300.



#Example usage:

deposit(500)
withdraw(200)
check_balance()
withdraw ~~bala~~ (400)
~~#~~check_balance()

Result:-

The program performs banking transactions using functions and maintains the account balance accurately.

10/9/25

6. Student Result calculator.

Aim:-

To create a Python Program using functions to accept marks of three subjects, calculate total, average, Grade and display.

Algorithm:-

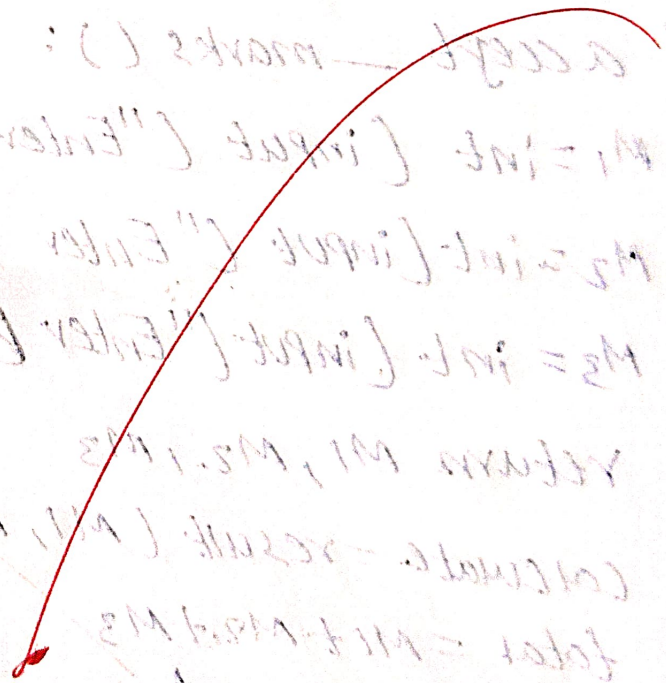
1. Define a function to accept marks for three subjects.
2. Define a function to calculate the total and average.
3. Define a function to determine the grade (A/B/C/fail) based on average.
4. Define a seperate function to display the result.

Program:-

```
def accept_marks():
    M1 = int(input("Enter marks for subject 1:"))
    M2 = int(input("Enter marks for subject 2:"))
    M3 = int(input("Enter marks for subject 3:"))
    return M1, M2, M3
def calculate_result(M1, M2, M3):
    total = M1+M2+M3
    average = total/3
    if average >=75:
        grade = 'A'
    elif average >=60:
        grade = 'B'
    elif average >=40:
        grade = 'C'
    else: grade = 'fail'
    return total, average, grade.
```

output:-

Enter marks for subject 1:80
Enter marks for subject 2:70
Enter marks for subject 3:60
Total marks:210
Average marks:70.0.
Grade:B.



```
def display_result(total, average grade):
    Print("Total marks:"), total)
    Print("Average marks:", average)
    Print("Grade:", grade)
marks=accept_marks()
total, average, grade = calculate_result(marks)
display_result(total_average, grade).
```

VEL TECH - CSE	
EX NO.	7
PERFORMANCE (5)	5
RESULT AND ANALYSIS (5)	5
VIVA VOCE (5)	5
RECORD (5)	5
TOTAL (20)	15
SIGN WITH DATE	

17/9/25

17/9/25

Result:- The Program user functions to process student marks and displays a result including total, average, and grade classification.