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25 Task-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 which increases 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.

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        print("Withdrawn:", amount)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("Correct Balance:", balance)
# Example usage
deposit(500)
withdraw(200)
Check_Balance()
withdraw(400)
check_balance()
```

Output:

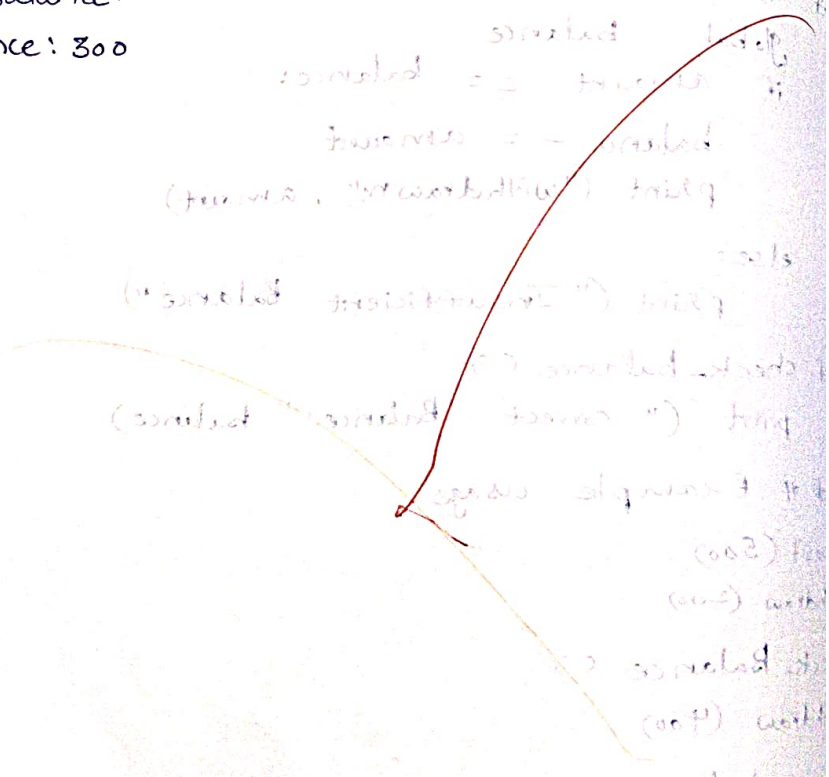
Deposited : 500

Withdraw : 200

Current Balance : 300

Insufficient Balance.

Current Balance : 300



Result:-

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

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b. 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;
def display_result(total, average, grade):
    print("Total Marks:", total)
    print("Average Marks:", average)
    print("Grade:", grade)

Marks = accept_marks()
```

Output:-

Enter marks for subject 1: 80

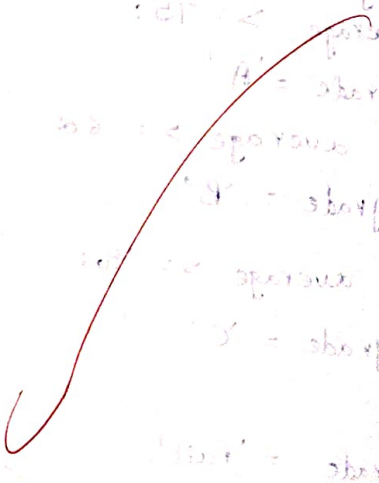
Enter marks for subject 2: 70

Enter marks for subject 3: 60

Total Marks: 210

Average Marks: 70.0

Grade: B



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)	
TOTAL (20)	15
WITH DATE	

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

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