Assignment(Dictionary)

1. **Write a Python program and calculate the mean of the below dictionary. Accept student name as key and in value accept marks**

students\_marks = {

"Rahul": 85,

"Yogesh": 90,

"Ruchita": 78,

"Pallavi": 92,

"Samiksha": 88,

"Pratik": 88,

"Sayali" : 98,

"Amayra" :77

}

def calculate\_mean(marks\_dict):

total\_marks = sum(marks\_dict.values())

total\_students = len(marks\_dict)

mean = total\_marks / total\_students

return mean

mean\_marks = calculate\_mean(students\_marks)

print(f"The mean of the students' marks is: {mean\_marks}")

**2.Write a Python script to concatenate the following dictionaries to create a new one.**

**Sample Dictionary :**

**dic1={1:10, 2:20}**

**dic2={3:30, 4:40}**

**dic3={5:50,6:60}**

**Expected Result : {1: 10, 2: 20, 3: 30, 4: 40, 5: 50, 6: 60}**

Code:

dic1 = {1: 10, 2: 20}

dic2 = {3: 30, 4: 40}

dic3 = {5: 50, 6: 60}

result = dic1.copy()

result.update(dic2)

result.update(dic3)

print("Expected Result:", result)

**3.Write a Python program to get the key, value and item in a dictionary.**

**Accept the input as a employee details. name,no, ID, dep , des,DOJ, DOB, salary**

name = input("Enter employee name: ")

no = input("Enter employee number: ")

ID = input("Enter employee ID: ")

dep = input("Enter employee department: ")

des = input("Enter employee designation: ")

DOJ = input("Enter employee date of joining (e.g. YYYY-MM-DD): ")

DOB = input("Enter employee date of birth (e.g. YYYY-MM-DD): ")

salary = float(input("Enter employee salary: "))

employee\_details = {

"Name": name,

"Employee Number": no,

"Employee ID": ID,

"Department": dep,

"Designation": des,

"Date of Joining": DOJ,

"Date of Birth": DOB,

"Salary": salary

}

print("\nEmployee Details Dictionary:")

print("\nKeys: ")

for key in employee\_details.keys():

print(key)

print("\nValues: ")

for value in employee\_details.values():

print(value)

print("\nItems (Key, Value pairs): ")

for item in employee\_details.items():

print(item)