PYTHON LAB – 13

DICTIONARY

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QUESTIONS

1. Write a Python program and calculate the mean of the below dictionary.
   test_dict = {"A" : 6, "B" : 9, "C" : 5, "D" : 7, "E" : 4}
   Output: 6.2
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}
3. Write a Python program to get the key, value, and item in a dictionary.
   input:
   dict_num = {1: 10, 2: 20, 3: 30, 4: 40, 5: 50, 6: 60}
4. Write a Python program to get the key, value, and item in a dictionary.
   Input:
   input_dict = {1: 10, 2: 20, 3:None, 4: 40, 5: None, 6: 60}

1. Write a Python program and calculate the mean of the below dictionary.
   test_dict = {"A" : 6, "B" : 9, "C" : 5, "D" : 7, "E" : 4}
   Output: 6.2

```
test_dict = {"A" : 6, "B" : 9, "C" : 5, "D" : 7, "E" : 4}
#creating dictionary
print("The dictionary is : ",test_dict) #printing
dictionary
Sum = 0 #initializing sum variable
for value in test_dict.values(): #iterating each value in
dictionary
  Sum+=value #Adding value to sum
Res = Sum/len(test_dict) #Dividing Sum by length of
dictionary
print("The mean of dictionary is ",Res) #printing result
```

OUTPUT:

The dictionary is : {'A': 6, 'B': 9, 'C': 5, 'D': 7, 'E': 4}

The mean of dictionary is 6.2

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}

```
dic1={1:10, 2:20} #Creating dictionary1
dic2={3:30, 4:40} #Creating dictionary2
dic3={5:50, 6:60} #Creating dictionary3
print("dic1 : ",dic1) #printing dictionary1
print("dic2 : ",dic2) #printing dictionary2
print("dic3 : ",dic3) #printing dictionary3
Update_Dict = {} #Creating empty dictionary
Update_Dict.update(dic1) #updating dictionary1 to updated
dictionary
Update_Dict.update(dic2) #updating dictionary2 to updated
dictionary
Update_Dict.update(dic3) #updating dictionary3 to updated
dictionary
print("The updated dictionary is : ",Update_Dict) #printing
updated dictionary
```

OUTPUT:

dic1 : {1: 10, 2: 20}

dic2 : {3: 30, 4: 40}

dic3 : {5: 50, 6: 60}

The updated dictionary is : {1: 10, 2: 20, 3: 30, 4: 40, 5: 50, 6: 60}

3. Write a Python program to get the key, value, and item in a dictionary.
   input:
   dict_num = {1: 10, 2: 20, 3: 30, 4: 40, 5: 50, 6: 60}

```
dict_num = {1: 10, 2: 20, 3: 30, 4: 40, 5: 50, 6: 60}
#creating dictionary
print("The keys are ")
for key in dict_num.keys(): #iterating each key in
dictionary
  print(key, end = " " ) #printing keys
print("The values are ")
for value in dict_num.values(): #iterating each value in
dictionary
  print(value, end = " ") #printing values
print("The items are ")
for items in dict_num.items(): #iterating each item in
dictionary
  print(items) #printing items
```

OUTPUT:

```
The keys are
1 2 3 4 5 6
The values are
10 20 30 40 50 60
The items are
(1, 10)
(2, 20)
(3, 30)
(4, 40)
(5, 50)
(6, 60)
```

4. Write a Python program to get the key, value, and item in a dictionary.
   Input: input_dict = {1: 10, 2: 20, 3:None, 4: 40, 5: None, 6: 60}

```
dict_num = {1: 10, 2: 20, 3:None, 4: 40, 5: None, 6: 60}
#creating dictionary
print("The keys are ")
for key in dict_num.keys(): #iterating each key in
dictionary
  print(key, end = " ") #printing keys
print("\nThe values are ")
for value in dict_num.values(): #iterating each value in
dictionary
  print(value, end = " ") #printing values
print("\nThe items are ")
for items in dict_num.items(): #iterating each item in
dictionary
  print(items) #printing items
```

OUTPUT:

The keys are

1 2 3 4 5 6

The values are

10 20 None 40 None 60

The items are

(1, 10)

(2, 20)

(3, None)

(4, 40)

(5, None)

(6, 60)