PYTHON PROGRAMMING

LAB-13 ANSWERS

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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

Code:

```
D = {"A": 6, "B": 9, "C": 5, "D": 7, "E": 4} #giving the input(test_dict)as list of directory.

mean = sum([value for value in D.values()]) / len(D)# finding the mean of given directories.

print("Mean:", mean)#printing the meam of the given directories.
```

Output:

Mean: 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}

Code:

```
d1 = {1: 10, 2: 20} # taking list of directories as input(d1).
d2 = {3: 30, 4: 40} # taking list of directories as input(d2).
d3 = {5: 50, 6: 60} # taking list of directories as input(d3).

result_dict = {} #finding the result.

#concatenating the given directories.
result_dict.update(d1)
result_dict.update(d2)
result_dict.update(d3)

print("Result:", result_dict) # printing the concatenated direcories.
```

Output:

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}

Code:

```
d = {1: 10, 2: 20, 3: 30, 4: 40, 5: 50, 6: 60} # taking the list of directories as input(d)

keys = [key for key in d] #finding the keys.
values = [value for value in d.values()]#finding the values.
items = [(key, value) for key, value in d.items()]#finding the items.

print("Keys:", keys) #printing the keys.
print("Values:", values) #printing the values.
print("Items:", items)#printing the items.
```

Output:

Keys: [1, 2, 3, 4, 5, 6]
Values: [10, 20, 30, 40, 50, 60]
Items: [(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}

Code:

```
input_dict = {1: 10, 2: 20, 3: None, 4: 40, 5: None, 6: 60}# taking the list of directories as input(input_dict).

keys = input_dict.keys() #finding the keys.

values = input_dict.values() #finding the values.

items = input_dict.items() #finding the items.

print("Keys:", keys) #printing the keys.
print("Values:", values) #printing the values.
print("Items:", items) #printing the items.
```

Output:

Keys: dict_keys([1, 2, 3, 4, 5, 6])
Values: dict_values([10, 20, None, 40, None, 60])
Items: dict_items([(1, 10), (2, 20), (3, None), (4, 40), (5, None), (6, 60)])