**PYTHON DICTIONARY TASK**

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**20bsc132**

1. **Write a Python program to add a key to a dictionary.**

**ans}**

**d = {0:10, 1:20}**

**print(d)**

**d.update({2:30})**

**print(d)**

**output :**

**{0: 10, 1: 20}**

**{0: 10, 1: 20, 2: 30}**

1. **Write a Python script to merge two Python dictionaries.**

**ans}**

**d1 = {'a': 100, 'b': 200}**

**d2 = {'x': 300, 'y': 200}**

**d = d1.copy()**

**d.update(d2)**

**print(d)**

**output:**

**{'x': 300, 'y': 200, 'a': 100, 'b': 200}**

1. **Write a Python program to sum all the keys in a dictionary**

**ans}**

**my\_dict = {'data1':100,'data2':-54,'data3':247}**

**print(sum(my\_dict.values()))**

**output:**

**293**

1. **Write a Python program to sum all the keys in a dictionary**

**ans}**

**# Python3 Program to find sum of**

**# all items in a Dictionary**

**# Function to print sum**

**def returnSum(myDict):**

**sum = 0**

**for i in myDict:**

**sum = sum + myDict[i]**

**return sum**

**# Driver Function**

**dict = {'a': 100, 'b':200, 'c':300}**

**print("Sum :", returnSum(dict))**

**output:**

**600**

1. **Write a Python program to remove an item from a dictionary.**

**ans}**

**# Python code to demonstrate**

**# removal of dict. pair**

**# using del**

**# Initializing dictionary**

**test\_dict = {"Arushi" : 22, "Anuradha" : 21, "Mani" : 21, "Haritha" : 21}**

**# Printing dictionary before removal**

**print ("The dictionary before performing remove is : " + str(test\_dict))**

**# Using del to remove a dict**

**# removes Mani**

**del test\_dict['Mani']**

**# Printing dictionary after removal**

**print ("The dictionary after remove is : " + str(test\_dict))**

**# Using del to remove a dict**

**# raises exception**

**del test\_dict['Manjeet']**

**output:**

**The dictionary before performing remove is : {'Anuradha': 21, 'Haritha': 21, 'Arushi': 22, 'Mani': 21}**

**The dictionary after remove is : {'Anuradha': 21, 'Haritha': 21, 'Arushi': 22}**

1. **Write a Python program to get the maximum and minimum value in a dictionary**

**ans}**

**my\_dict = {'x':500, 'y':5874, 'z': 560}**

**key\_max = max(my\_dict.keys(), key=(lambda k: my\_dict[k]))**

**key\_min = min(my\_dict.keys(), key=(lambda k: my\_dict[k]))**

**print('Maximum Value: ',my\_dict[key\_max])**

**print('Minimum Value: ',my\_dict[key\_min])**

**output:**

**Maximum Value: 5874**

**Minimum Value: 500**

1. **Write a Python program to get a value from a dictionary**

**ans}**

**dict\_num = {1: 10, 2: 20, 3: 30, 4: 40, 5: 50, 6: 60}**

**print("key value count")**

**for count, (key, value) in enumerate(dict\_num.items(), 1):**

**print(key,' ',value,' ', count)**

**output:**

**key value count**

**1 10 1**

**2 20 2**

**3 30 3**

**4 40 4**

**5 50 5**

**6 60 6**

1. **Write a python program to update from a dictionary**

**ans]**

**# Python program to show working**

**# of update() method in Dictionary**

**# Dictionary with three items**

**Dictionary1 = { 'A': 'Geeks', 'B': 'For', }**

**Dictionary2 = { 'B': 'Geeks' }**

**# Dictionary before Updation**

**print("Original Dictionary:")**

**print(Dictionary1)**

**# update the value of key 'B'**

**Dictionary1.update(Dictionary2)**

**print("Dictionary after updation:")**

**print(Dictionary1)**

**output:**

**Original Dictionary:**

**{'A': 'Geeks', 'B': 'For'}**

**Dictionary after updation:**

**{'A': 'Geeks', 'B': 'Geeks'}**

1. **Write a Python program to update a dictionary with multiple values**

**ans}**

**dict = {'Student Name': 'Berry', 'Roll No.': 12, 'Subject': 'English'}**

**print("The student who left:", dict.get('Student Name'))**

**dict['Student Name'] = 'Larry'**

**print("The student who replaced: [Update]", dict.get('Student Name'))**

**dict['Student Name'] = 'Jarry'**

**print("The student who joined: [Addition]", dict.get('Student Name'))**

**output:**

**The student who left: Berry**

**The student who replaced: [Update] Larry**

**The student who joined: [Addition] Jarry**

**10) Write a Python program to copy (shallow copy) a dictionary**

**ans}**

**# Python code to demonstrate copy operations**

**# importing "copy" for copy operations**

**import copy**

**# initializing list 1**

**li1 = [1, 2, [3,5], 4]**

**# using copy to shallow copy**

**li2 = copy.copy(li1)**

**# original elements of list**

**print ("The original elements before shallow copying")**

**for i in range(0,len(li1)):**

**print (li1[i],end=" ")**

**print("\r")**

**# adding and element to new list**

**li2[2][0] = 7**

**# checking if change is reflected**

**print ("The original elements after shallow copying")**

**for i in range(0,len( li1)):**

**print (li1[i],end=" ")**

**output:**

**The original elements before shallow copying**

**1 2 [3, 5] 4**

**The original elements after shallow copying**

**1 2 [7, 5] 4**