**1. Write a Python script to add key to a dictionary?**

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

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

d = {0:10, 1:20}

print(d)

d.update({2:30})

print(d)

**2. Write a Python script to concatenate 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}

dic2={3:30, 4:40}

dic3={5:50,6:60}

dic4 = {}

for d in (dic1, dic2, dic3):

dic4.update(d)

print(dic4)

**3. Write a Python script to check if a given key already exists in a dictionary?**

d = {1: 10, 2: 20, 3: 30, 4: 40, 5: 50, 6: 60}

x=input("Enter a key")

if x in d:

print('Key is present in the dictionary')

else:

print('Key is not present in the dictionary')

**4. Write a Python script to print a dictionary where the keys are numbers between 1 and 15 (both included) and the values are square of keys?  
Sample Dictionary   
{1: 1, 2: 4, 3: 9, 4: 16, 5: 25, 6: 36, 7: 49, 8: 64, 9: 81, 10: 100, 11: 121, 12: 144, 13: 169, 14: 196, 15: 225}**

n=int(input("Enter a number: "))

d=dict()

for x in range(1,n+1):

d[x]=x\*\*2

print(d)

**5. Python Program to Create a Dictionary with Key as First Character of the string and Value as Words Starting with that Character in that string**

test\_string=input("Enter string:")

l=test\_string.split()

d={}

for word in l:

if(word[0] not in d.keys()):

d[word[0]]=[]

d[word[0]].append(word)

else:

if(word not in d[word[0]]):

d[word[0]].append(word)

for k,v in d.items():

print(k,":",v)

**6. Write a Python program to count number of items in a dictionary value that is a list.**

dict = {'Alex': ['subj1', 'subj2', 'subj3'], 'David': ['subj1', 'subj2']}

mylist=dict.values()

c=0

for i in dict.values():

c=c+len(i)

print (c)

**7. Write a Python program to count of the letters from the string and create a dictionary from a string.**

str1 = 'aaaaabbbbbAAAAAbbbbb'

my\_dict = {}

for l in str1:

if(l in my\_dict.keys()):

continue

c=str1.count(l)

my\_dict[l]=c

print (my\_dict)

**8.Create a dictionary of products purchased and their MRPs. Calculate the bill and display to the customer**

Products = {'Pen Drive': 500, 'Mouse':400, 'Keyboard': 600}

sum = 0

for val in Products.values():

sum += val

print(sum)

**9.Write a program that has a dictionary of your friends name (as keys) and their birthdays. Print the items in the dictionary in a sorted order. Prompt the user to enter a name and check if it is present in the dictionary. If the name does not exist, then ask the user to enter DOB. Add the details in the dictionary.**

Bdays = {'Arav' : '17/3', 'Manan' : '26/2', 'Pratham' : '5/6'}

print(sorted(Bdays.keys()))

name = input("Enter the name you are looking for : ")

if(name in Bdays):

print(Bdays[name])

else:

bday = input("Enter birth date : ")

Bdays[name] = bday

print(Bdays)

**10.Write a program that prints the maximum and minimum value in a dictionary**

Marks = {'CSA' : 90, 'DS' : 92, 'FOC' : 91, 'C++' : 94, 'C' : 88}

mylist=sorted(Marks.values())

print(mylist[0])

print(mylist[1])

#print(max(Marks.values()))

#print(min(Marks.values()))