1) #Python program to read the elements of a dictionary from console I/O and display the dictionary.

n=int(input("Input a number "))

d = dict()

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

d[x]=x\*x

print(d)

2) #Python program to check whether or not the user-provided keys are available in the dictionary (use ‘in’ operator).

d={'A':1,'B':2,'C':3}

key=input("Enter key to check:")

if key in d.keys():

print("Key is present and value of the key is:")

print(d[key])

else:

print("Key isn't present!")

3) #Python program to print the sorted dictionary.

y={'Meenu':40,'Aleena':2,'Biju':6,'Deepa':3}

l=list(y.items())

l.sort()

print('Ascending order is',l)

4) # Python program to print the length of a dictionary.

dict = {'Name': 'Zara', 'Age': 7};

print ("Length : " , len (dict))

5) #Python program to compare two dictionaries.

dictionary1 = {"a": 1, "b": 2}

dictionary2 = {"a": 3, "b": 2}

common\_pairs = dict()

for key in dictionary1:

if (key in dictionary2 and dictionary1[key] == dictionary2[key]):

common\_pairs[key] = dictionary1[key]

print(common\_pairs)

6) #Python program to read two dictionaries and print a new dictionary, concatenating the other two dictionaries.

d1={'A':1,'B':2}

d2={'C':3}

d1.update(d2)

print("Concatenated dictionary is:")

print(d1)

7) #Python program to print a dictionary where the keys are numbers between 1 and 15 (both included) and the values are cubes of keys.

d=dict()

for x in range(1,16):

d[x]=x\*\*3

print(d)

8) #Python program to remove duplicates from Dictionary.

test\_dict = { 'IT' : 10, 'is' : 15, 'best' : 20, 'for' : 10, 'geeks' : 20}

temp = []

res = dict()

for key, val in test\_dict.items():

if val not in temp:

temp.append(val)

res[key] = val

print("The dictionary after values removal : " + str(res))

9) #Create a dictionary with empty items. Write a Python program to drop empty items from the given Dictionary.

dict1 = {'c1': 'Red', 'c2': 'Green', 'c3':None}

print("New Dictionary after dropping empty items:")

dict1 = {key:value for (key, value) in dict1.items() if value is not None}

print(dict1)

10) #Python program to demonstrate the dictionary functions and operations.

d = {1: "one", 2: "two"}

new = d.copy()

print('New: ', new)

d.clear()

print('d =', d)

keys = {'a', 'e', 'i', 'o', 'u' }

vowels = dict.fromkeys(keys)

print(vowels)

person = {'name': 'Phill', 'age': 22}

print('Name: ', person.get('name'))

print('Age: ', person.get('age'))

print('Salary: ', person.get('salary'))

print('Salary: ', person.get('salary', 0.0))

sales = { 'apple': 2, 'orange': 3, 'grapes': 4 }

print(sales.items())