# Python Program to Add a Key-Value Pair to the Dictionary

my\_dict = {"name":"james bond",

"roll\_no":101,

"class":10}

key\_list = []

for key in my\_dict.keys():

key\_list.append(key)

print("all keys = ",key\_list)

print()

value\_list = []

for value in my\_dict.values():

value\_list.append(value)

print("all values = ",value\_list)

print()

for key, value in my\_dict.items():

print(key,"=",value)



# Python Program to Concatenate Two Dictionaries Into One

dict1 = {"artist":"adele",

"album":"21",

"year":2016}

dict2 = {"total songs":9}

print("dict 1 = ",dict1)

print("dict 2 = ",dict2)

dict1.update(dict2)

print("concatenation of dictionaries =")

print(dict1)



# Python Program to Check if a Given Key Exists in a Dictionary or Not

k = "sachin"

my\_dict = {"roll\_no":10,

"name":"sachin",

"marks":150,

"gender":"male"}

if k in my\_dict.keys():

print(k,"is a key in dictionary.")

elif k in my\_dict.values():

print(k,"is a value in dictionary.")

else:

print(k,"doesnt exist in dictionary.")



# Python Program to Generate a Dictionary that Contains Numbers (between 1 and n) in the Form (x,x\*x).

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

res\_dict = {}

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

res\_dict.update({i:i\*i})

print(res\_dict)



# Python Program to Sum All the Items in a Dictionary.

d = {1:2,

2:4,

3:6,

4:8}

print("dictionary =",d)

key\_sum = 0

value\_sum = 0

for key, value in d.items():

key\_sum += key

value\_sum += value

print("sum of all keys =",key\_sum)

print("sum of all values =",value\_sum)



# Python Program to Multiply All the Items in a Dictionary

d = {1:2,

2:4,

3:6,

4:8}

print("dictionary =",d)

key\_mul = 1

value\_mul = 1

for key, value in d.items():

key\_mul \*= key

value\_mul \*= value

print("multiplication of all keys =",key\_mul)

print("multiplication of all values =",value\_mul)



# Python Program to Remove the Given Key from a Dictionary.

d = {"name":"xyv",

"c\_id" :101,

"gender":"male",

"age":29}

print("dictionary =",d)

k = input("Enter the key to be removed: ")

if k in d:

d.pop(k)

print("new dictionary =",d)

else:

print(k,"is not in dictionary.")



# Python Program to Count the Frequency of Words Appearing in a String Using a Dictionary.

d = {"name":"xyv",

"c\_id" :101,

"gender":"age",

"age":29}

print("og dictionary =",d)

w = input("Enter word for frequency check = ")

k\_lst = []

v\_lst = []

k\_w\_sum = 0

v\_w\_sum = 0

for k,v in d.items():

k\_lst.append(k)

v\_lst.append(v)

if w in k\_lst or w in v\_lst:

k\_w\_sum += k\_lst.count(w)

v\_w\_sum += v\_lst.count(w)

else:

print(w,"does not exist in dictionary.")

w\_sum = k\_w\_sum + v\_w\_sum

if w\_sum > 0:

print(w,"occurs",w\_sum,"times in dictionary.")