Name : Neha Dumane

Roll no: 2201046

Div: A

3. Write a program to perform following operations on dictionary

1. Check whether a given key exists in a dictionary or not.

2. Iterate over dictionary items using for loop.

3. Concatenate two dictionaries to create one.

4. Sum all the values of a dictionary.

5. Get the maximum and minimum value of dictionary.

**Code:**

```
dict1 = {'a': "Python", 'b': "Java", 'c': "C++"}

dict2 = {'d': 100, 'e': 200, 'f': 300}


#Checks whether key exists

key = 'b'

if key in dict1:

    print("Present, value =", dict1[key])

else:

    print("Not present")


#Iterate dictionary items using forloop
```

```
print("Dictionary items are follows:")
for key in dict1:
   print(key, dict1[key])

#Concatenate two dictionaries
dict3 = {}
for d in (dict1,dict2):
   dict3.update(d)
print("Dictionary after concatenation:",dict3)

#Sum of values of a dictionary
sum = 0
for i in dict2.values():
   sum = sum + i
print("Sum of values of dictionary:",sum)

#Max and min value
#v=dict2.values()
#maxi=max(v)
print("Maximum:",max(dict2.values()))
print("Minimum:",min(dict2.values()))
```

**Output:**

Present, value = Java

Dictionary items are follows:

a Python

b Java

c C++

Dictionary after concatenation: {'a': 'Python', 'b': 'Java', 'c': 'C++', 'd': 100, 'e': 200, 'f': 300}

Sum of values of dictionary: 600

Maximum: 300

Minimum: 100