# ANSWERS

# PYTHON ASSIGNMENT – 7

**1. A python program to create a dictionary with employee details and retrieve the values upon giving the keys.**

**Ans -**

# creating a new dictionary  
emp\_dict = {"name": "Chinmay Deshpande"**,** "age": **29,** "birth\_year": **1990**}  
  
# function to return key for any value  
def get\_value(k):  
 for key**,** value in emp\_dict.items():  
 if k == key :  
 return value  
  
 return "key doesn't exist"  
  
print(get\_value("name"))  
print(get\_value("age"))  
print(get\_value("birth\_year"))  
print(get\_value("NAME"))

**2. A python program to retrieve keys, values and key-value pairs from a dictionary.**

**Ans -**

# creating a new dictionary  
emp\_dict = {"name": "Chinmay Deshpande"**,** "age": **29,** "birth\_year": **1990**}

keys = []  
values = []  
key\_values = []  
  
# function to return key for any value

def get(dict):  
 for key**,** value in emp\_dict.items():  
 keys.append(key)  
 values.append(value)  
 key\_values.append((key**,**value))  
  
get(emp\_dict)  
print(keys**,** "\n"**,**values**,**"\n"**,** key\_values)

**3. A python program to create a dictionary and find the sum of values.**

**Ans -**

# Function to print sum  
def returnSum(dict):  
 sum = **0** for i in dict.values():  
 sum = sum + i  
  
 return sum  
  
dict = {'a': **100,** 'b': **200,** 'c': **300**}  
print("Sum :"**,** returnSum(dict))

**4. A python program to create a dictionary from keyboard and display the elements.**

**Ans -**

**5. A python program to create a dictionary with cricket players names and scores in a match . Also we are retrieving runs by entering the players name .**

**Ans -**

# creating a new dictionary  
playersNamesAndScores = {"Virat Kohli" : **90,** "Rohit Sharma" : **92,** "MS Dhoni" : **75,** "Sachin Tendulkar" : **100**}

# function to return key for any value

def get\_score(player\_name):  
 for key**,** value in playersNamesAndScores.items():  
 if player\_name == key :  
 return value  
  
 return "Player doesn't exist in Dictionary"  
  
print(get\_score("Sachin Tendulkar"))

**6. A python program to show the usage of for loop to retrieve elements of dictionary .**

**Ans -**

color = {'Red': **1,** 'Green': **2,** 'Blue': **3**}

for color\_key**,** value in color.items():  
 print(color\_key**,** 'corresponds to '**,** color[color\_key])

**7. A python program to find the number of occurrences of each letter in a string using dictionary .**

**Ans -**

# initializing string  
test\_str = "Minskole"  
  
all\_freq = {}  
  
for i in test\_str:  
 if i in all\_freq:  
 all\_freq[i] += **1** else:  
 all\_freq[i] = **1**# printing result  
print("Count of all characters in given string is :\n " + str(all\_freq))

**8. A python program to sort the elements of dictionary based on key or value .**

**Ans -**

color\_dict = {'red':'#FF0000'**,** 'green':'#008000'**,** 'black':'#000000'**,** 'white':'#FFFFFF'}  
  
for key in sorted(color\_dict):  
 print(key**,** color\_dict[key])

**9. A python program to convert the elements of two lists into key-value pairs of a dictionary .**

**Ans -**

# initializing lists  
keys = ["Rash"**,** "Kil"**,** "Varsha"]  
values = [**1, 4, 5**]  
  
# Printing original keys-value lists  
print("Original key list is : " + str(keys))  
print("Original value list is : " + str(values))  
  
# to convert lists to dictionary  
res = {}  
for key in keys:  
 for value in values:  
 res[key] = value  
 values.remove(value)  
 break  
  
# Printing resultant dictionary  
print("Resultant dictionary is : " + str(res))

**10. A python program to convert a string into key-value pairs and store them into a dictionary .**

**Ans -**

# Initializing String  
string = "A - 13, B - 14, C - 15"  
  
# Converting string to dictionary  
Dict = dict((x.strip()**,** y.strip()) for x**,** y in (element.split('-') for element in string.split(', ')))  
  
print(Dict)

**11. A python function to accept a dictionary and display its elements .**

**Ans -**

# creating a new dictionary  
pythonDict = {"key1" : "val1"**,** "key2" : "val2"**,** "key3" : "val3"**,** "key4" : "val4"}  
  
# function to display the elements of dict  
def displayElements(Dictionary):  
 for i in Dictionary:  
 print( i**,** ":"**,** Dictionary[i])  
  
displayElements(pythonDict)

**12. A python program to create a dictionary that does not change the order of elements .**

**Ans -**

from collections import OrderedDict  
  
print("This is a Dict:\n")  
d = {}  
d['a'] = **1**d['b'] = **2**d['c'] = **3**d['d'] = **4**for key**,** value in d.items():  
 print(key**,** value)  
  
print("\nThis is an Ordered Dict:\n")  
od = OrderedDict()  
od['a'] = **1**od['b'] = **2**od['c'] = **3**od['d'] = **4**for key**,** value in od.items():  
 print(key**,** value)