



## 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)
```