Programming Laboratory-I

Assignment No-10

(Python List and Dictionary)

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1. Write a Python script to perform below operations on list
   a. Initialize a list lst=[1.5, "Python", -5, 4, 0.8, -3.2, 'C++']
   b. Add 0.8 to the list
   c. Add [4,1.5,6,0.8] to the existing list
   d. Insert any element at position 2.
   e. Remove 'C++' from the list.
   f. Remove element at position 5.
   g. Find out the index of element 5.
   h. Find out the occurrence of element 4.
   i. Slice the list from 2nd to 6th position.
   j. Reverse the list.
   k. Create a copy of this list and display.

   Program:

```python
# List Initializing
lst= [ 1.5,"Python" , -5, 4, 0.8, -3.2,"c++" ]

# List Insertion
lst.append(0.8)
lst.append([4,1.5,6,0.8] )

# Insertion at the Specific Index
lst.insert(1,2)

# Remove an element from the list
lst.remove("c++")
```

```python
# Remove the element at Index 5
lst.pop(5)

# Counting the occurence of element
print(lst.count(lst[5]))

# Slice the List
print(lst[2:6])

# To reverse the List
print(lst[::-1])

# Clonning the List
clone=[]
clone=lst
print(clone)
```

Output:

2. Write a Python script to perform below operations on Dictionary
   a. Create a dictionary
   b. Print keys and values of dictionary

c. Search for a specific key, if found, display its value, if not display default value.
d. Add new key and value
e. Remove any element
f. Copy this dictionary
g. Find out length of dictionary
h. Delete the dictionary

Program:

```python
# Initialing the Dictionary
dict={1:"Sanket",2:"Somesh",3:"Samrat",4:"Saurabh"}

# Printing the Key Value Pairs
for a in dict:
    print(a,dict[a])

# Printing the  Length of an Dictionary
print(len(dict))

# Adding an element to an Dictionary
dict[5]="Samadhan"

# Finding an element in a Diictionary
print(dict.get(5,"None"))

# Creating a copy of Dictionary
c=dict.copy()
print(c)

# Deleting or removing particular element
del dict[1]
print(dict)

# deleting the Dictionary
del dict
```

```
print(dict)
```

Output:

```
OUTPUT    DEBUG CONSOLE    TERMINAL

Windows PowerShell
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PS C:\Users\sai\Desktop\Lab> python -u "c:\Users\sai\Desktop\Lab\Assignment_10\2.py"
1 Sanket
2 Somesh
3 Samrat
4 Saurabh
4
Samadhan
{1: 'Sanket', 2: 'Somesh', 3: 'Samrat', 4: 'Saurabh', 5: 'Samadhan'}
{2: 'Somesh', 3: 'Samrat', 4: 'Saurabh', 5: 'Samadhan'}
<class 'dict'>
PS C:\Users\sai\Desktop\Lab>
```