List

Que.1 how to declare a list

```
lst = []

print(lst)
```

```
[]
```

Que 2 Declare a list of containing different fruit names

```
lst1 = ["Apple","Mango","Banana","Orange","Pineapple","Strawberry"]

print(lst1)
```

```
['Apple', 'Mango', 'Banana', 'Orange', 'Pineapple', 'Strawberry']
```

Que 3 Declare a list containing different data-types in it

```
lst2 = [25,"saurabh",15,63,"hello",10.6]

print(lst2)
```

```
[25, 'saurabh', 15, 63, 'hello', 10.6]
```

Que 4 write down the code to check a particular element in the list

```
lst3 = ["a","b","c","d",25,30,45,"e"]

print("Our list :", lst3)
```

```
Our list : ['a', 'b', 'c', 'd', 25, 30, 45, 'e']
```

```
if "c" in lst3:
    print("Item c is present in list ")
else:
    print("Item c is not present in list ")
```

```
Item c is present in list
```

```
if "k" in lst3:
    print("Item k is present in list ")
else:
    print("Item k is not present in list ")
```

```
Item k is not present in list
```

Que.5 create a list of 5 elements and print the middle element which is in the list

```
my_list = [25,86,88,89,74]
print("sorted list is :",my_list)
print("middle value is :",my_list[int(len(my_list)/2)])
```

```
sorted list is : [25, 86, 88, 89, 74]
middle value is : 88
```

Que.6 A list containing 10 elements slice it from index 3 to 4

```
lst4 = [25,56,78,89,41,20,63,45,52,36]
```

```
print(lst4)
```

```
[25, 56, 78, 89, 41, 20, 63, 45, 52, 36]
```

```
print(lst4[3:4])
```

```
[89]
```

Que.7 Declare a list and add a new element into the list using the append function

```
my_list = ["Cricket","Hockey","Volleyball","Badminton","Chess"]
```

```
print(my_list)
```

```
['Cricket', 'Hockey', 'Volleyball', 'Badminton', 'Chess']
```

```
my_list.append("Tennis")
```

```
print(my_list)
```

```
['Cricket', 'Hockey', 'Volleyball', 'Badminton', 'Chess', 'Tennis']
```

Que.8 Declare a list store multiple elements and access the elements using negative indexing

```
my_list1 = ["Cricket","Hockey","Volleyball","Badminton","Chess"]
```

```
my_list1
```

```
['Cricket', 'Hockey', 'Volleyball', 'Badminton', 'Chess']
```

```
print(my_list1[-2])
```

```
'Badminton'
```

Dictionary

Que.1 Write a Python script to add a key to a dictionary. Sample Dictionary : {0: 10, 1: 20} Expected Result : {0: 10, 1: 20, 2: 30}

```
s = {0:10,1:20}

s.update({2:30})

print(s)
```

```
{0: 10, 1: 20, 2: 30}
```

Que 2 Write a Python script to check whether a given key already exists in a dictionary

```
k = {1:20,2:40,3:60,4:80,5:100}
def is_key_present(z):
    if z in k:
        print("key is present in the dictionary")
    else:
        print("key is not present in the dictionary")


print(is_key_present(5))
```

```
key is present in the dictionary
None
```

```
print(is_key_present(6))
```

```
key is not present in the dictionary
None
```

Que.3 Write a Python program to remove a key from a dictionary

```
Dict = {1:20,2:40,3:60,4:80,5:100,6:120,7:140}

print(Dict)
```

```
{1: 20, 2: 40, 3: 60, 4: 80, 5: 100, 6: 120, 7: 140}
```

```
del Dict[1]

print(Dict)
```

```
{2: 40, 3: 60, 4: 80, 5: 100, 6: 120, 7: 140}
```

```
del Dict[3]
```

```
print(Dict)
```

```
{2: 40, 4: 80, 5: 100, 6: 120, 7: 140}
```

Que.4 : Write a python program Step1: declare an empty dictionary Step2:add as many keys as you want

```
Dict1 = {}

print(Dict1)
```

```
{}
```

```
Dict1.update({"Saurabh":20,"Pratik":63,"Rohit":89})

print(Dict1)
```

```
{'Saurabh': 20, 'Pratik': 63, 'Rohit': 89}
```

Que.5 Create a dictionary and store different keys with values and after creation and new key value pairs to that dictionary

```
Dict = {"f'name":"Saurabh","L'name":"Palve","Phone
No.":9373299385,"address":"Ahmednagar"}

print("Current dictionary is: ", Dict)
```

```
Current dictionary is:  {"f'name": 'Saurabh', "L'name": 'Palve',
'Phone No.': 9373299385, 'address': 'Ahmednagar'}
```

```
Dict2= {"School":"Residential Highschool","PRN":56321478}

print(Dict.update(Dict2))
print(Dict)
```

```
None
{"f'name": 'Saurabh', "L'name": 'Palve', 'Phone No.': 9373299385,
'address': 'Ahmednagar', 'School': 'Residential Highschool', 'PRN':
56321478}
```

Que 6 Create a dictionary and print all the keys() using print function

```
Dict3 = {"A":"Saurabh","B":"Pratik","C":"Rohit"}

print(Dict3.keys())
```

```
dict_keys(['A', 'B', 'C'])
```

Que. 7 :create a dictionary and print all the values

```
Dict4 = {"A":"Saurabh","B":"Pratik","C":"Rohit"}
for value in Dict4.values():
    print(value)
```

```
Saurabh
Pratik
Rohit
```

Que.8 : Create a dictionary where for one key multiple values are present Ex: {‘stdnames’ : [‘pravar’,’mahesh’,’prakash’]} Taking the above example create different dictionaries have number of keys and values present but each key belongs to number of values

```
dct = {"stdnames":["pravar","mahesh","prakash"]}
```

```
dct
```

```
{'stdnames': ['pravar', 'mahesh', 'prakash']}
```

```
dct1 = {"sirnames":["palve","dhore","shevate"]}
```

```
dct.update(dct1)
```

```
print(dct)
```

```
{'stdnames': ['pravar', 'mahesh', 'prakash'], 'sirnames': ['palve',
'dhore', 'shevate']}
```