Assignment 7

October 9, 2020

[1]:
```
"""
NAME: SHUBHAM TAKANKHAR
CLASS: SY MCA
ROLL NO: 54
"""
```

[1]:
```
'\nNAME: SHUBHAM TAKANKHAR \nCLASS: SY MCA\nROLL NO: 54\n'
```

[2]:
```
#Q1 WAP that creates two sets- squares and cubes in range 1-10.Demonstrate the␣
 ↪use of update(),pop(),remove(),add() and clear functions.
```

[3]:
```
lists=[1,2,3,4,5]

lists.pop(4)
print("AFTER POPPING ELEMENT")
print(lists)

lists.remove(2)
print("AFTER REMOVING ELEMENT 2")
print(lists)

sets={1,2}
sets.update(lists)
print("AFTER UPDATING SET WITH LIST ELEMENT")
print(sets)

sets.add(5)
print("AFTER ADDING 5 TO SET")

print(sets)
print("CLEARING SET")

sets.clear()
print(sets)
```

```
AFTER POPPING ELEMENT
[1, 2, 3, 4]
AFTER REMOVING ELEMENT 2
```

```
[1, 3, 4]
AFTER UPDATING SET WITH LIST ELEMENT
{1, 2, 3, 4}
AFTER ADDING 5 TO SET
{1, 2, 3, 4, 5}
CLEARING SET
set()
```

[4]:
```
#Q2 WAP that has a list of countries. Create a set of countries and print the␣
↪names of countries in sorted order.
```

[5]:
```
#print names in sorted order
countries=['United States of America', 'Afghanistan', 'Albania', 'Algeria',␣
↪'Andorra', 'Angola', 'Argentina', 'Armenia', 'Australia', 'Austria',␣
↪'Azerbaijan', 'Bahamas', 'Bahrain', 'Bangladesh', 'Barbados', 'Belarus',␣
↪'Belgium', 'Belize', 'Benin', 'Bhutan', 'Bolivia', 'Botswana', 'Brazil',␣
↪'Brunei', 'Bulgaria',  'Chad', 'Chile', 'Republic of China', ␣
↪'Colombia','Denmark', 'Djibouti', 'Fiji', 'Finland', 'France', 'Gabon',␣
↪'Gaza']

countries.sort()

sortedCountries=sorted(set(countries))

print(sortedCountries)
```

```
['Afghanistan', 'Albania', 'Algeria', 'Andorra', 'Angola', 'Argentina',
'Armenia', 'Australia', 'Austria', 'Azerbaijan', 'Bahamas', 'Bahrain',
'Bangladesh', 'Barbados', 'Belarus', 'Belgium', 'Belize', 'Benin', 'Bhutan',
'Bolivia', 'Botswana', 'Brazil', 'Brunei', 'Bulgaria', 'Chad', 'Chile',
'Colombia', 'Denmark', 'Djibouti', 'Fiji', 'Finland', 'France', 'Gabon', 'Gaza',
'Republic of China', 'United States of America']
```

[6]:
```
#Q3 WAP ask user to enter a msg and count print number of occurrences of each␣
↪character
```

[7]:
```
msg=input("ENTER MESSAGE:") #my name is shubham
lists=[]
dicts={}
for c in msg:
    if c in lists:
        dicts[c]+=1
    else:
        lists.append(c)
        dicts[c]=1
print(dicts)
```

```
{'m': 3, 'y': 1, ' ': 3, 'n': 1, 'a': 2, 'e': 1, 'i': 1, 's': 2, 'h': 2, 'u': 1,
```

```
'b': 1}
```

[8]:
```
#Q3 WAP that creates dictionary of cube of odd numbers from 5 -15
```

[9]:
```
dicts={}
for i in range(5,16):
    if i % 2==1:
        dicts[i]=i*i*i
print(dicts)
```

```
{5: 125, 7: 343, 9: 729, 11: 1331, 13: 2197, 15: 3375}
```