Loops & Dictionary in Python

July 23, 2022

```
[1]: #range in list
     l=[1,2,3,4,5,"s","f"]
     l[2:4]
```

```
[1]: [3, 4]
```

```
[2]: #lets add something in list we will perform .append method
     l.append(33)
```

```
[3]: print(l)
```

```
[1, 2, 3, 4, 5, 's', 'f', 33]
```

```
[5]: #lets remove something from the list
     l.remove(4)
```

```
[6]: print(l)
```

```
[1, 2, 3, 5, 's', 'f', 33]
```

```
[10]: #lets use .pop method to snatch an element from list to pop out
      l.pop(3)
```

```
[10]: 5
```

```
[12]: l.pop(-1)
```

```
[12]: 33
```

Dictionary in python

```
[13]: d = {"a":1, "b":8}
      d.values() #it will show us only values
```

```
[13]: dict_values([1, 8])
```

```
[14]: #to see keys we use
      d.keys()
```

```
[14]: dict_keys(['a', 'b'])
```

```
[16]: #to add a new key and value into dictionary
      d["m"] =33
      print(d)
```

```
{'a': 1, 'b': 8, 'm': 33}
```

```
[18]: # to use .pop method and get value of any key
      d.pop("b")
```

```
[18]: 8
```

```
[20]: d #it will show us what we have in the d dictionary
```

```
[20]: {'a': 1, 'm': 33}
```

```
[22]: #use loop and add 1 in every itteration
      l = [1,2,3,4,5,6]
      for i in l:
          i = i+1
          print(i)
```

```
2
3
4
5
6
7
```

```
[24]: len(l) #when we use len it will show us the number of elements in the list
```

```
[24]: 6
```

```
[27]: d = {"a":1,"b":3,"c":6,"d":33}
```

```
[29]: d.items()     #when we use item it will show us all the key and values in dict.
```

```
[29]: dict_items([('a', 1), ('b', 3), ('c', 6), ('d', 33)])
```

```
[32]: #now lets add 1 to each value in the dictionary
      for k,v in d.items():
          v = v+1
          print(v)
```

```
2
4
```

```
7
34
```

[62]: `d_list= {"a":[2],"b":[22],"g":[3]}`

[63]: `print(d_list)`

```
{'a': [2], 'b': [22], 'g': [3]}
```

[64]:
```python
for k,c in d_list.items():
        print(k,v) #when we use .items() it will show us all the keys and values
```

```
a 34
b 34
g 34
```

[65]: `print(d_list)`

```
{'a': [2], 'b': [22], 'g': [3]}
```

[66]: `keys = d_list.keys()`

[69]:
```python
for i in keys:
    if i == ["b"]:
        d_list[i] = "hobbies"
```

[72]: `d_list`

[72]: `{'a': [2], 'b': [22], 'g': [3]}`

[71]: `type(d_list)`

[71]: `dict`