

```
In [1]: numebr=[1,2,3,4,5,6,7]
```

```
In [3]: even=[]
        for i in numebr:
            if i%2==0:
                even.append(i)
```

```
In [4]: even
```

```
Out[4]: [2, 4, 6]
```

```
In [5]: evens=[i for i in numebr if i%2==0 ]
```

```
In [6]: evens
```

```
Out[6]: [2, 4, 6]
```

```
In [8]: square=[i*i for i in numebr]
```

```
In [9]: square
```

```
Out[9]: [1, 4, 9, 16, 25, 36, 49]
```

```
In [10]: raghul=[1,1,2,3,4,5,5,6]
          raghul
```

```
Out[10]: [1, 1, 2, 3, 4, 5, 5, 6]
```

```
In [11]: raghul=set([1,1,2,3,4,5,5,6])
          raghul
```

```
Out[11]: {1, 2, 3, 4, 5, 6}
```

```
In [12]: even={i for i in raghul if i%2==0}
```

```
In [13]: even
```

```
Out[13]: {2, 4, 6}
```

```
In [14]: square=[i*i for i in raghul]
```

```
In [15]: square
```

```
Out[15]: [1, 4, 9, 16, 25, 36]
```

```
In [16]: names=['raghul','gowtham','naveen','sekar']
          age=[21,23,29,28]
```

```
In [17]: zips=zip(names,age)
```

```
In [20]: zips
```

```
Out[20]: <zip at 0x23cb1b0ac00>
```

```
In [21]: for i in zips:
          print(i)
```

```
('raghul', 21)
('gowtham', 23)
('naveen', 29)
('sekar', 28)
```

```
In [22]: d={name:age for name,age in zip(names,age)}
```

```
In [23]: d
```

```
Out[23]: {'raghul': 21, 'gowtham': 23, 'naveen': 29, 'sekar': 28}
```

```
In [24]: ds={'raghul':'scooty','gowtham':'ktm','sp':'r15'}
```

```
In [28]: d={name:bike for (name,bike) in ds.items()}
```

```
In [29]: d
```

```
Out[29]: {'raghul': 'scooty', 'gowtham': 'ktm', 'sp': 'r15'}
```

```
In [30]: ds.items()
```

```
Out[30]: dict_items([('raghul', 'scooty'), ('gowtham', 'ktm'), ('sp', 'r15')])
```

```
In [ ]:
```