

# Day - 07

## Loop Statement (for)

It is used for iterating over a sequence, (that is either list, tuple, a dictionary, set, or string).

### # print each list

```
Cars = ['Honda', 'ford', 'maruti', 'Tata']
```

```
for x in Cars:
```

```
    print(x) = Honda
               ford
```

```
               maruti
```

The for loop does not require an indexing value variable to set beforehand.

### # Looping Through String

Even string are iterable string

E.g.

```
for x in 'banana':
```

```
    print(x)
```

Output:      ↘ b  
                  a  
                  n  
                  a  
                  n  
                  a.

July 2017							August 2017							September 2017						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
30	31				1			1	2	3	4	5							1	2
2	3	4	5	6	7	8	6	7	8	9	10	11	12	3	4	5	6	7	8	9
9	10	11	12	13	14	15	13	14	15	16	17	18	19	10	11	12	13	14	15	16
16	17	18	19	20	21	22	20	21	22	23	24	25	26	17	18	19	20	21	22	23
23	24	25	26	27	28	29	27	28	29	30	31			24	25	26	27	28	29	30



`Cars = ['Honda', 'Ford', 'Tata', 'Tesla']`

`for x in cars:`

`print(x)`

`if x == 'tata':`

`break`

output:

Honda

Ford

Tata

here, we got ~~data~~ <sup>also</sup>

next method

`for x in cars:`

`print(x)`

`if x == 'tata':` Output Honda

`break`

Ford

print(x)

here not having 'tata'

## # Continue Statement

In Continue we can stop current iteration of the loop and continue next stop.

`Cars = ['Honda', 'Ford', 'Tata', 'Tesla']`

`for x in cars:`

`if x == 'Ford':`

`continue`

`print(x)`

↳ Honda, Tata, Tesla

Tata

Tesla



# range in loop.

```
for x in range(6):
```

```
    print(x)
```

```
    ↳ 0
      1
      2
      3
      4
      5
```

range method with lower and upper value

```
for x in range(3, 12):
```

```
    print(x)
```

```
    ↳ 3
```

```
      4
```

```
      5
```

```
      6
```

Increment of the value

```
for x in range(2, 30, 3):
```

```
    print(x)
```

```
    ↳ 2
```

```
      5
```

```
      8
```

```
     11
```

Lower range

Upper range

↳ Increment

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23	24	25	26	27	28	29	27	28	29	30	31			24	25	26	27	28	29	30



```
# Else in loop
for x in range(6):
    print(x)
    ↓
```

```
else:
    ("finished all are done")
```

# nested loop statement

```
Colour = ['blue', 'red', 'orange']
```

```
Cars = ['ford', 'Honda', 'tata']
```

```
for x in Colour:
```

```
    print(x)
```

```
    for y in Cars:
```

```
        print(x, y)
```

Output →

```
blue ford
blue ford
blue ford
red ford
red ford
red ford
orange tata
orange tata
orange tata
```

[illegible]

- Python
- Python
- powershell
- Python
- Code
- Python
- Python
- Code
- Python Deb...