

Loops in python:

- While
- For

While

- executes a block of code repeatedly while a condition is "True"

```
In [19]: enrolled_patients = 0
target = 5

while enrolled_patients < target:
    enrolled_patients += 1
    print ("patient enrolled successfully")

print ("all patients enrolled successfully")
```

```
patient enrolled successfully
all patients enrolled successfully
```

```
In [21]: visit_number = 1

while visit_number <=3:
    print ("reminder sent for visit")

    visit_number +=1
print ("All visit reminders sent")
```

```
reminder sent for visit
reminder sent for visit
reminder sent for visit
All visit reminders sent
```

for loop:

- Used to iterate over a sequence (like a list, tuple or string)

```
In [3]: name = "Meera"
for i in name:
    print(i)
```

```
M
e
e
r
a
```

```
In [4]: blood_pressure = [100, 101, 102, 103]
      for i in blood_pressure:
          print (i)
```

```
100
101
102
103
```

```
In [10]: range (0,5)
      for i in range(5):
          print (i)
```

```
0
1
2
3
4
```

```
In [12]: for i in range (5,20,5):
          print (i)
```

```
5
10
15
```

```
In [13]: for i in range (1,31):
          if i % 3 == 0:
              print(i)
```

```
3
6
9
12
15
18
21
24
27
30
```

```
In [14]: for i in range (1,51):
          if i % 5 == 0:
              print (i)
```

```
5
10
15
20
25
30
35
40
45
50
```

```
In [15]: n = 4
      for i in range (0,n):
          print (i)
```

```
0
1
2
3

In [16]: li = ["geeks", "for", "geeks"]
for x in li:
    print(x)

tup = ("geeks", "for", "geeks")
for x in tup:
    print(x)

s = "abc"
for x in s:
    print(x)

d = dict({'x':123, 'y':354})
for x in d:
    print("%s %d" % (x, d[x]))

set1 = {10, 30, 20}
for x in set1:
    print(x),
```

```
geeks
for
geeks
geeks
for
geeks
a
b
c
x 123
y 354
10
20
30
```

BREAK, CONTINUE, PASS

```
In [28]: blood_pressures = [118, 125, 142, 130, 135]

for bp in blood_pressures:
    if bp > 140:
        print("Abnormal BP detected")
        break
    print("BP Normal")
```

```
BP Normal
BP Normal
Abnormal BP detected
```

```
In [29]: patient_data = [98, None, 101, 99, None, 105]

for temp in patient_data:
    if temp is None:
```

```
        continue  
        print("Recorded temperature")
```

Recorded temperature
Recorded temperature
Recorded temperature
Recorded temperature

In []:

In []:

In [23]: **for i in range (1,11):**
 print (i)

1
2
3
4
5
6
7
8
9
10

In []:

In []:

In []: