# loops in python

### **PYTHON KA CI**

In Python, **loops are control flow statements** that allow you to execute a block of code repeatedly. Loops are useful for performing repetitive tasks, iterating over data structures (like lists or strings), and automating operations that require repeated execution.

#### Types of Loops in Python:

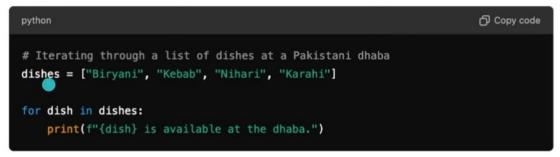
- 1. for **loop**: Used to iterate over a sequence (such as a list, tuple, dictionary, string, or range) and execute a block of code for each item in the sequence.
- 2. while **loop**: Repeats a block of code as long as a specified condition is True. It's useful when you don't know in advance how many times to repeat the loop.



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#### Example:



#### Output:

```
Biryani is available at the dhaba.

Kebab is available at the dhaba.

Nihari is available at the dhaba.

Karahi is available at the dhaba.
```

```
list = ["Aammar", "Bilal", "Qasim", "Shahid", "Tariq", "Umer"]

for name in list:
    print(name)
    ✓ 0.0s

Aammar
Bilal
Qasim
Shahid
Tariq
Umer
```

## while loop

#### 2. while Loop

The while loop repeats as long as a certain condition remains True.

#### Syntax:

```
python

☐ Copy code

while conditon:
# code to execute
```

## while loop

#### Example:

```
# Counting how many cups of chai you can have until you're full

cups_of_chai = 0

while cups_of_chai < 3:
    cups_of_chai += 1
    print(f"Chai cup {cups_of_chai} is served!")

print("I'm full now, no more chai!")

Cutput:

| Copy code | Chai cup 1 is served! | Chai cup 2 is served! | Chai cup 3 is served! | Chai c
```

```
While loop

cups_of_chai = 0

while cups_of_chai < 5:
    print("I want more chai.")
    cups_of_chai += 1

print("I have had enough chai.")

v 0.0s

I want more chai.
I want more chai.</pre>
```