

15/09/2025

## Day-09

1. Write a program to check prime number

```
num = int(input())
```

```
count = 0
```

```
for i in range(1, num, 1):
```

```
    if (num % i == 0):
```

```
        count = count + 1
```

```
    else:
```

```
        count = count
```

```
print("after count:", count)
```

```
if (count == 0):
```

```
    print("prime num")
```

```
else:
```

```
    print("not prime num")
```

→ While loop: Repeats codes as long as condition is true.

Syntax:

```
while (condition):
```

```
    Statements
```

incrementation / decrementation

→ loop statements.

1. break - exists the loop immediately.

```
Ex: for i in range(1, 5):
```

```
    if i == 5:
```

```
        break
```

```
    print(i)
```

O/p: 1  
2  
3  
4

2. continue - Skips the rest of current iteration and goes to next.

Ex: 

```
for i in range(1,7,1):  
    if(i==3):  
        continue  
    print(i)
```

o/p: 1  
2  
4  
5  
6  
#3 is not added.

3. pass = does nothing. Used as a placeholder.