

while

September 3, 2021

```
[1]: #logical operator  
     "a" in "aeiou"
```

[1]: True

```
[2]: "c" in "aeiou"
```

[2]: False

```
[3]: "au" in "aeiou"
```

[3]: False

```
[4]: "ar" in "arnav"
```

[4]: True

```
[5]: "ja" in "tejas"
```

[5]: True

```
[6]: "Av" in "arnav"
```

[6]: False

```
[7]: "Av" in "arnva arnAv"
```

[7]: True

```
[8]: #not  
     not(True)
```

[8]: False

```
[9]: not(False)
```

[9]: True

```
[10]: not True
```

```
[10]: False
```

```
[11]: not False
```

```
[11]: True
```

```
[12]: not 2 > 4
```

```
[12]: True
```

```
[15]: "ar" not in "arnav"
```

```
[15]: False
```

```
[16]: not("ar" in "arnav")
```

```
[16]: False
```

```
[17]: not "ar" in "arnva"
```

```
[17]: False
```

```
[ ]: #while Loop  
  
while 4 > 2:  
    print("arnav")
```

```
[18]: num = 1  
while num <= 3:  
    print(num)  
    num = num + 1
```

```
1  
2  
3
```

```
[19]: num = 1  
while num <= 3:  
    num = num + 1  
    print(num)
```

```
2  
3  
4
```

```
[21]: #updating variable value  
num = 5  
num = num + 5  
num
```

[21]: 10

```
[22]: a = 5  
a += 5 # a = a + 5  
a
```

[22]: 10

```
[24]: b = 10  
b = b * 2  
b *= 2  
b
```

[24]: 40

```
[25]: a = 7  
a **= 2  
a
```

[25]: 49

```
[ ]: num = 1  
while num <= 3:  
    num += 1  
    print(num)
```

```
[27]: #break #used within the if  
num = 1  
while num >= 1:  
    print(num)  
    num = num + 1 #num += 1  
    if num > 3:  
        break  
    print("arnav", num)
```

```
1  
arnav 2  
2  
arnav 3  
3  
Kanishk is a handsome guy
```

```
[35]: num = input("enter positive integer")
num = int(num)

flag = 0
num_check = 2
while num_check < num:
    if num % num_check == 0:
        flag = 1
        break
    num_check += 1
if flag == 1:
    print("Number is not a prime")
else:
    print("Number is prime")
```

```
enter positive integer31
Number is prime
```

```
[ ]:
```