

# Python Flow Control:

## while loop

**Save As:** `while_example.py`

# while Loop

**Do something WHILE** a condition is **True**.

while **condition**:

**SYNTAX**

    #indented block of code

    #will be executed

#while the condition is **True**, the while block of code is executed.

#when the while condition is **False**, loop will STOP.

```
num = 1
```

```
while num <= 10:
```

```
    print("The number is: ", num)
```

**Trapped in an Infinite Loop**  
**(Loop that won't stop)**

**Ctrl - C**

**#what is needed to exit out of the loop?**

**num = 1**

**while num <= 10:**

**print("The number is: ", num)**

```
num = 1
```

```
while num <= 10:
```

```
    print("The number is: ", num)
```

```
    #you have to increase num by 1
```

```
    num = num + 1
```

```
num = 1
```

```
while num <= 10:
```

```
    print("The number is: ", num)
```

```
    #same as previous slide
```

```
    #shorthand method
```

```
    num += 1
```



```
num = 1
```

```
while num <= 10:
```

```
    print("The number is: ", num)
```

```
    #you have to increase num by 1
```

```
    num = num + 1
```

```
print("Done with loop. I am now outside the loop")
```