

Python Flow Control:

while loop

while Loop

- Do something **WHILE** a condition is **True**.
- Loop will **STOP** when condition is **False**.

while **test_condition**:

indented block of code executed

.....

.....

SYNTAX

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

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

#program execution will continue after the while loop.

Enter the following code: **Save as today's_date.py**

```
while True:  
    print("Good Job!")
```

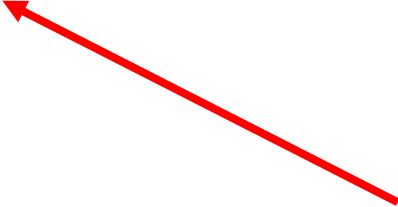
Trapped in an Infinite Loop

Ctrl - C

```
while True:  
    print("Good Job!")
```

#The next line is outside the while loop

```
print("Have a Nice Day!")
```



#will never print, because the while loop will remain True

Enter Code in: today's_date.py

```
num = 0
```

```
while num < 5:
```

```
    print("Good Job!")
```

num	Condition (True or False) num < 5

#what is needed to exit out of the loop

num = 0

while num < 5:

print("Good Job!")

Enter Code in: today's_date.py

```
count = 0
```

```
while count < 5:
```

```
    print("The count is: ", count)
```

```
    #increment count by 1
```

```
    count = count + 1
```

```
print("Good bye!")
```

```
#This is outside the while loop
```

counter	Condition (True or False) count < 5

Enter Code in: whileloop.py

- 1. Write a while loop to print the numbers 10 – 1, then Blastoff!**
- 2. Write a while loop to print only the even numbers from 0-20**
- 3. See Course Web Page.**

**Search the Internet
for more
while loop Examples**