

William Prado
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\n = creates new line.

Repetition Structures

- duplicate code issue.

maint types of loops

- condition-controlled loop

- count-controlled loop

ex: print ('I will display 1,2,thr')
for num in [1,2,3,4,5]:
 print(num)

While Loop

Condition-controlled loop

Format.

while condition: for variable in [v1, v2, v3, etc.]:
 statement
 statement
 etc.

YTB

While loop in Python.

```
number = 1
```

```
while number < 5:
```

```
    print(number)
```

```
    number = number + 1
```

YTB

While loop in python easy.

Pretest loop

```
X = 1
```

```
while X <= 5:
```

```
    print(X * 5)
```

```
    X = X + 1
```

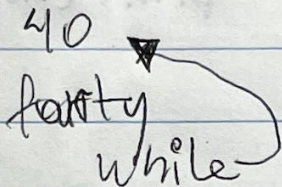
```
print("done")
```


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Total = total + number
Balance = balance - withdrawal

Input validation while loop to tell user to enter numbers and not a word for example:

40
forty
while



Get a test score.

```
score = int(input('Enter a test score: '))
```

Make sure score is not less than 0.

```
while score < 0:
```

```
    print('ERROR: The score cannot be negative.')
```

```
    score = int(input('Enter another score: '))
```

```
print(f'your score {score} can now be processed!')
```


Conditional

if _____ :	<
elif _____ :	<=
else:	>
print(' ')	>=
	==

variable = Statement

The = assign

!=

and

or

not

Variable name in python - 1st character cannot be a #.

17"

Compound Boolean expression created w/ the **or** operator is true if either of its subexpressions is true.

Assume the variable $a=2$, $b=4$, and $c=6$
True or false $a > -1$ or $a <= b$

Assume the variables $a=2$, $b=4$, & $c=6$.
True $\text{not } (a > 2)$

A string is a sequence of characters.

Logical - and, or, & not operators.