while Loop Examples

#Repeat while loop as long as condition is True.

while True:
print("Good Job!")

#Repeat while loop as long as condition num < 5 is True.

```
num = 0
while num < 5:
    print("Good Job!")</pre>
```

#Repeat while loop as long as condition num < 5 is True.

```
num = 0
while num < 5:
    print("Good Job!")
    num = num + 1</pre>
```

#Repeat while loop as long as condition counter < 3 is True.

```
counter = 0
while counter < 3:
  print("Inside loop")
  counter = counter + 1
else:
    print("Inside else")
```

#Find the SUM of the numbers from 1 to 10. Repeat while loop as long as condition inc < num is True.

```
num = 10
sum = 0
inc = 1
while inc <= num:
  sum = sum + inc
  inc = inc + 1
print("The sum is ", sum)
```

```
sum = sum + inc
Variable sum to hold the numbers that are being counted
inc = inc + 1
Variable inc to increment from 1 to 2 to 3 to 4 up to 10.
```

print("The sum is ", sum)
Will print the final sum outside of the while loop

#Find the SUM of the numbers from 1 to 100000.

```
theSum = 0
count = 1
while count <= 100000:
                                       theSum = theSum + 1
   theSum = theSum + 1
                                       Variable the Sum to hold the numbers that are being counted
                                     count = count + 1
   count = count + 1
                                      Variable count to increment from 1 to 2 to 3 to 4 up to 100000.
print("The sum is ", theSum)
```

print("The sum is ", theSum)
Will print the final sum outside of the while loop

#Find the SUM of numbers entered from a user, or just press enter to stop.

```
theSum = 0.0

data = input("Enter a number or just press enter to quit: ")

while data != "": #empty string ""

number = float(data)

theSum = theSum + number

data = input("Enter a number or just press enter to quit: ")
```

#The next statement is outside the loop print("The sum is ", theSum)

```
theSum = 0.0
while True:
     data = input("Enter a number or just press enter to quit: ")
     if data == "":
                                        #empty string ""
           break
     number = float(data)
     theSum = theSum + number
```

#The next statement is outside the loop print("The sum is ", theSum)

#The break Statement will cause an exit from the while loop.

#Loop will repeat asking for a grade to be inputted between 0 - 100. while True:

```
number = int(input("Enter a numeric grade from 0 - 100 "))
if number >= 0 and number <=100:
    break
else:</pre>
```

print("Error: grade must be between 0 - 100")

print("The grade is ", number)

if number >= 0 and number <= 100 is True, **break** will exit out of the while loop

#Loop will repeat as long as var > 0 is True. But, if var == 5, break statement will stop the loop.

var = 10

```
while var > 0:
    print("Current Value: ", var)
    var = var - 1
    if var == 5:
        break
```

print("Good bye!")

#Loop will repeat as long as var > 0 is True. But, if var == 5, continue statement will return back to beginning of loop.

```
var = 11
                                         #if condition var == 5 is True, CONTINUE will
while var > 0:
                                         return back to the beginning of the loop.
       var = var - 1
       if var == 5:
              continue
       print("Current Value: ", var)
```

print("Good bye!")