# **Python while Loop Examples**

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In Python programming, we use *while*loops to do a task a certain number of times repeatedly. The *while*loop checks a condition and executes the task as long as that condition is satisfied. The loop will stop its execution once the condition becomes not satisfied.

The syntax of a while loop is as follows:

while condition:

statements

In this post, I have added some simple examples of using while loops in Python for various needs. Check out these examples to get a clear idea of how while loops work in Python. Let’s dive right in.

## 1. Example of using while loops in Python

n = 1

while n < 5:

print("Hello Pythonista")

n = n+1

## 2. Example of using the *break* statement in while loops

In Python, we can use the ***break***statement to end a while loop prematurely.

n = 1

while n < 5:

print("Hello Pythonista")

n = n+1

if n == 3:

break

3. Example of using the *continue* statement in while loops

In Python, we can use the ***continue***statement to stop the current iteration of the while loop and continue with the next one.

n = 1

while n < 5:

if n == 2:

n = n+1

continue

print("Hello Pythonista")

n = n+1

## 4. Using *if-elif-else* statements inside while loop

z = 0

while z < 3:

if z == 0:

print("z is",z)

z += 1

elif z == 1:

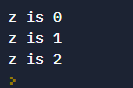
print("z is",z)

z += 1

else:

print("z is",z)

z += 1



## 5. Adding elements to a list using while loop

myList = []

i = 0

while len(myList) < 4 :

myList.append(i)

i += 1

print(myList)

## 6. Python while loop to print a number series

n = 10

while n <= 100:

print(n ,end = ",")

n = n+10

## 7. Printing the items in a tuple using while loop

myTuple = (10,20,30,40,50,60)

i = 0

while i < len(myTuple):

print(myTuple[i])

i += 1

## 8. Finding the sum of numbers in a list using while loop

myList = [23,45,12,10,25]

i = 0

sum = 0

while i < len(myList):

sum += myList[i]

i += 1

print(sum)

## 9. Popping out elements from a list using while loop

fruitsList = ["Mango","Apple","Orange","Guava"]

while fruitsList:

print(fruitsList.pop())

print(fruitsList)

## 10. Printing all letters except some using Python while loop

i = 0

word = "Hello"

#print all letters except y and o

while i < len(word):

if word[i] == "e" or word[i] =="o":

i += 1

continue

print("Returned letter",word[i])

i += 1

## 11. Python while loop to take inputs from the user

n = int(input("Enter a number: "))

while n != 0:

n = int(input("Enter zero to quit: "))

## 12. Converting numbers from decimal to binary using while loop

num = int(input("Enter a number: "))

b = 0

p = 1

n = num

while n>0:

rem = n%2

b += rem \* p

p = p\*10

n = n//2

print("Binary value: ",b)

## 13. Finding the average of 5 numbers using while loop

p = 5

sum = 0

count = 0

while p > 0:

count += 1

f = int(input("Enter the number "))

sum += f

p -= 1

average = sum/count

print("Average of given Numbers:",average)

## 14. Printing the square of numbers using while loop

n = 1

while n <= 5:

squareNum = n\*\*2

print(n,squareNum)

n += 1

## 15. Finding the multiples of a number using while loop

n = int(input("Enter an integer: "))

i = 1

while i <= 10:

mul = i\*n

i += 1

print(mul)

## 16. Reversing a number using while loop in Python

n = int(input("Enter a number: "))

rev = 0

while n!=0:

r = n%10

rev = rev \* 10 + r

n = n//10

print("Reversed number:",rev)

## 17. Finding the sum of even numbers using while loop

i = 0

sum = 0

n = int(input("Enter the number n: "))

while i <= n:

if i % 2 == 0:

sum += i

i += 1

print("Sum of even numbers till n:",sum)

## 18. Finding the factorial of a given number using while loop

n = int(input("Enter the number: "))

f =n

r = 1

while f != 0 :

r \*= f

f -= 1

print("Factorial of",n,"is:",r)