

Loops

```
print("Boom boom")
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```

```
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```

```
print("start")
count = 0
```

```
if count == 5:
    print("Helicopter shot")
    count = count + 1
```

```
print("lesson taught")
print("End")
```

```
start
lesson taught
End
```

While Loops

image

marriage

marriage = False

```
# while marriage == False:  
#     print("Get married")  
#     marriage = True
```

print("start")

count = 0

```
while count == 5:  
    print("Helicopter shot")  
    count = count + 1
```

print("lesson taught")

print("End")

start

lesson taught

End

print("start")

count = 0

```
while count != 5:  
    print("Helicopter shot")  
    count = count + 1
```

print("lesson taught")

print("End")

start

Helicopter shot

```
Helicopter shot  
Helicopter shot  
Helicopter shot  
Helicopter shot  
lesson taught  
End
```

```
# print("start")  
# count = 0  
  
# while count != 5:  
#     print("Helicopter shot")  
#     count = count + 3  
  
# print("lesson taught")  
# print("End")
```

Beware of infinite loops

image

```
print("start")  
count = 0  
  
while count <= 5:  
    print("Helicopter shot")  
    count = count + 3
```

```
print("lesson taught")  
print("End")
```

```
start  
Helicopter shot  
Helicopter shot  
lesson taught  
End
```

```
print(6 <= 5)
```

False

```
print("start")  
count = 0
```

```
while count <= 5:
    print("Helicopter shot", end = " ")
    count = count + 3

print("lesson taught", end = " ")
print()
print("End")

start
Helicopter shot Helicopter shot lesson taught
End
```

```
count = 0

while count <= 5:
    print(count)
    count = count + 1

print("count is", count)

0
1
2
3
4
5
count is 6

5 <= 5

True
```

Print numbers from 1 to 10

```
count = 1

while count <= 10:
    print(count, end = "->")
    count = count + 1

1->2->3->4->5->6->7->8->9->10->
```

print number from 1 to n, n as user input

```
n = int(input())

count = 1
while count <= n:
    print(count, end = " ")
    count += 1

6

1 2 3 4 5 6
```

Odd numbers from 1 to 10

```
count = 1

while count <= 10:
    if count % 2 != 0:
        print(count)
    count += 1

1
3
5
7
9

count = 1

while count <= 10:
    print("before update", count)
    count += 2
    print("After update", count)

before update 1
After update 3
before update 3
After update 5
before update 5
After update 7
before update 7
After update 9
before update 9
After update 11
```

Take user input and print them

```
n = 3
while n >= 0:
    print(n)
    n -= 1
```

3
2
1
0

```
n = 3
while n >= 0:
    a = int(input())
    print(a)
    n -= 1
```

122

122

324

324

34

34

345

345

```
n = 3
while n >= 0:
    a = input("Take Input here: ")
    print(a)
    n -= 1
```

Take Input here: Rahul

Rahul

Take Input here: Karthik

Karthik

Take Input here: Rashmi

Rashmi

Take Input here: Kavya

Kavya

print N - 1, using N as user input

```
n = int(input("Take value for n"))
```

```
while n > 0:
    print(n, end = " ")
    n -= 1
```

Take value for n 10

10 9 8 7 6 5 4 3 2 1

Print table of 5

```
n = 1
while n <= 10:
    print(n * 5, end = " ")
    n += 1
```

5 10 15 20 25 30 35 40 45 50

print all the digits in a number

```
n = int(input())
```

```
while n > 0:
    r = n % 10
    print(r, end = " ")
    n = n // 10
```

254

4 5 2

Find the length of this number

```
n = int(input())
```

```
length = 0
while n > 0:
    r = n % 10
    print(r, end = " ")
    n = n // 10
```

```
    length += 1
print()
print(length)
```

254

4 5 2
3

Add sum all the digits?

```
n = int(input())
```

```
add = 0
while n > 0:
    r = n % 10
    add += r
    n = n // 10
```

```
print(add)
```

254

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