

▼ Challenge 1: Print all numbers from 1 to N

```
i = 1

while i <= 3:
    if i == 3:
        print(i, end='')
    else:
        print(i, end=' ')
    # this line below run
    # for both if and else
    # cases
    i = i + 1

1 2 3
```

▼ Special Assignment Operators

```
a = 3
a = a + 3
print(a)

6
```

```
a = 6
a += 9
print(a)

15
```

```
a = 6
a -= 9
print(a)

-3
```

```
a = 6
a *= 9
print(a)

54
```

```
a = 6
a /= 9
print(a)

0.6666666666666666
```

```
print(6 / 9)

0.6666666666666666
```

```
print(int(6/9))

0
```

▼ Integer division

```
print(6 // 9)

0
```

```
print(3 // 2)

1
```

```
print(3 / 2)

1.5
```

```
print(5 // 2)

2
```

```
print(5/3)

1.6666666666666667
```

```
print(5 // 3)

1
```

It rounds off to the nearest integer on the left side.

```
print(-5 // 2)
```

```
-3
```

```
print(-3 // 2)
```

```
-2
```

```
print(int(-3 / 2))
```

```
-1
```

Is the difference between the 2 visible?

▼ Quiz

```
a = 6  
a %= 9  
print(a)
```

```
6
```

▼ Challenge 2: Print last digit

```
N = 1234  
res = N % 10  
print(N)
```

```
1234
```

▼ Challenge 3: Remove the last digit

```
N = 1234  
N //= 10
```

```
print(N)
```

123

▼ Let's assume that we are working with positive numbers for this problem now :)

1. Convert to positive, remove last digit and convert back to a negative number.

```
N = -100
N *= -1 # converts to the positive number

N //= 10
N *= -1 # again convert back to a negative number
print(N)

-10
```

2. Use int() function because it just removes the decimal part.

```
N = -1234

N = int(N / 10)

print(N)

-123
```

▼ Challenge 4: Print all the digits of a number from right to left.

```
N = int(input())

1234

if N == 0:
    print(0)

while N > 0:
    # print the last digit
    print(N % 10)
    # remove the last digit from N
    N //= 10
```

4
3
2
1

```
if N == 0:
    print(0)
```

0

▼ Challenge 5: Read T numbers as input from the user and print them

```
N = int(input())
i = 1
while i <= N:
    print(i)
    i += 1
```

3
1
2
3

5

5

```
N = int(input())
i = 1
while i <= N:
    x = int(input())
    print(x)
    i += 1
```

3
12
12
34
34
56
56

✓ 1s completed at 00:24

● ×