

→ 5 n

4 0

3 h

2 t

1 y

0 p

* even number and odd number

```
for i in range(1, 11, 1):
```

```
    if (i % 2 == 0):
```

```
        print(i, "even number")
```

```
    else:
```

```
        print(i, "odd number")
```

→ 1 = odd number

2 = even number

3 = odd number

4 = even number

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* Multiplication

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

```
for i in range(1, 11, 1):
```

```
    print(f"{n} x {i} = {n*i}")
```

↳ n = int(input())

- input() waits for the user to type something & hits Enter.

- whatever the user types is taken as a string

- int(...) converts that string into an integer

- The result is stored in the variable n.

↳ `for i in range(1, 11, 1):`

- This is a for loop. It runs the code inside it 10 times.

- `range(1, 11, 1)` generates numbers starting from 1 up to but not including 11, with a step of 1.

- So it takes the values 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 one value per loop.

↳ `print(f"{n} x {i} = {n*i}")`

- This line prints the multiplication of `n` (your input) and `i` (the current number in the loop).

- The `f"..."` is called an f-string which lets you put variables inside the string.

- `{n}` gets replaced with the number you entered.

- `{i}` is the current number in the loop.

- `{n*i}` is the result of multiplying them.

ex: `n = 7` and `i = 3`

$$7 \times 3 = 21$$

* write a program to count how many odd numbers are there from 1 to 16

- `count = 0`

`for i in range(1, 16, 1):`

`if (i % 2 == 1):`

`print(i, i)`

`count = count + 1`

`print("count =", count)`

↳ `count = 0`

- This creates a variable called `count` & sets its

value to 0.

- you're going to use count to keep track of how many even numbers are found

↳ if $(i \% 2 == 0)$:

- this checks if i is even
- $\%$ is the modulus operator, which gives the remainder when dividing i by 2.
- if $i \% 2 == 0$, that means i is divisible by 2 so it's even

↳ print("i", i)

- if the number i is even, this line will print it.
- output example: i 2

↳ count = count + 1

- this increases the count by 1 each time an even number is found.

* count = 0

for i in range(1, 16, 1):

i = 6

if $(i \% 2 == 0)$:

print("i", i)

count = count + 1

print("count=", count)