

Settings Help

Launcher X Loops (While, For).ipynb +

Python 3 (ipykernel)

Print numbers from 1 to 5 using a while loop:

```
[1]: num = 1
while num <= 5:
    print(num)
    num += 1
```

1
2
3
4
5

Calculate the sum of numbers from 1 to 10 using a while loop:

```
[2]: total = 0
num = 1
while num <= 10:
    total += num
    num += 1
print("Sum:", total)
```

Sum: 55

Calculate the factorial of a number using a for loop:

```
[4]: number = 5
factorial = 1
for i in range(1, number + 1):
    factorial *= i
print("Factorial:", factorial)
```

Factorial: 120

Count the number of vowels in a string using a for loop:

```
[5]: string = "Hello, World!"
vowels = "aeiouAEIOU"
count = 0
for char in string:
    if char in vowels:
        count += 1
print("Number of vowels:", count)
```

Number of vowels: 3

Number of vowels: 3

Print a pattern using nested loops:

```
[10]: for i in range(1, 6):
    for j in range(1):
        print("\t", end="")
    print()
```

```

*
* *
* * *
* * * *
* * * * *
```

Generate a multiplication table using nested loops:

```
[11]: for i in range(1, 11):
    for j in range(1, 11):
        print(i * j, end="\t")
    print()
```

1	2	3	4	5	6	7	8	9	10
2	4	6	8	10	12	14	16	18	20
3	6	9	12	15	18	21	24	27	30
4	8	12	16	20	24	28	32	36	40
5	10	15	20	25	30	35	40	45	50
6	12	18	24	30	36	42	48	54	60
7	14	21	28	35	42	49	56	63	70
8	16	24	32	40	48	56	64	72	80
9	18	27	36	45	54	63	72	81	90
10	20	30	40	50	60	70	80	90	100

[]: