

```
#1. Print Numbers from 1 to 10
for i in range(1, 11):
    print(i, end=' ')
```

```
# 2. Print Even Numbers from 1 to 20
for i in range(2, 21, 2):
    print(i, end=' ')
```

➞ 2 4 6 8 10 12 14 16 18 20

```
#3. Print Odd Numbers from 1 to 20
for i in range(1, 21, 2):
    print(i, end=' ')
```

➞ 1 3 5 7 9 11 13 15 17 19

```
#4. Calculate the Factorial of a Number
num = int(input("Enter a number: "))
fact = 1
for i in range(1, num + 1):
    fact *= i
print("Factorial:", fact)
```

➞ Enter a number: 111  
Factorial: 17629525510902446638721610471070757887614095360265655160415740633473469550



```
#5. Sum of Numbers from 1 to 100
total = 0
for i in range(1, 101):
    total += i
print("Sum:", total)
```

➞ Sum: 5050

```
#6. Average of Numbers in a List
numbers = [10, 20, 30, 40, 50]
total = 0
for num in numbers:
    total += num
average = total / len(numbers)
print("Average:", average)
```

➞ Average: 30.0

## #7. Draw Patterns Using Nested Loops


```
rows = 5
for i in range(1, rows + 1):
    for j in range(i):
        print("*", end="")
    print()
```



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

## #8. Print Numbers from 1 to 5


```
for i in range(1, 6):
    print(i, end=' ')
```



```
1 2 3 4 5
```

## #9. Print First 10 Natural Numbers


```
for i in range(1, 11):
    print(i, end=' ')
```



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

## #10. Check if First and Last Number in a List Are the Same


```
lst = [10, 20, 30, 40, 10]
print("Same first and last:", lst[0] == lst[-1])
```



```
Same first and last: True
```

## #11. Print Numbers Divisible by 5

```
nums = [10, 21, 35, 40, 8, 55]
for num in nums:
    if num % 5 == 0:
        print(num, end=' ')
```



```
10 35 40 55
```

## #12. Check Vowel or Consonant

```
char = input("Enter a character: ").lower()
if char in 'aeiou':
    print("Vowel")
else:
    print("Consonant")
```

Enter a character: e  
Vowel

#13. Count Even and Odd Numbers Between 10 and 55

```
even = odd = 0
for i in range(10, 56):
    if i % 2 == 0:
        even += 1
    else:
        odd += 1
print("Even:", even, "Odd:", odd)
```

Even: 23 Odd: 23

#14. Print Numbers from 1 to 25

```
for i in range(1, 26):
    if i % 5 != 0:
        print(i, end=' ')
```

1 2 3 4 6 7 8 9 11 12 13 14 16 17 18 19 21 22 23 24

#15. Factorial of Each Element in a List

```
lst = [3, 4, 5]
for num in lst:
    fact = 1
    for i in range(1, num + 1):
        fact *= i
    print(f"Factorial of {num} is {fact}")
```

Factorial of 3 is 6  
Factorial of 4 is 24  
Factorial of 5 is 120

#16. Product or Sum of Two Integers

```
a = int(input("Enter first number: "))
b = int(input("Enter second number: "))
product = a * b
print("Result:", a + b if product > 500 else product)
```

Enter first number: 111  
Enter second number: 123  
Result: 234

#17. Print the Greatest of Two Numbers

```
a = int(input("Enter first number: "))
b = int(input("Enter second number: "))
print("Greatest:", max(a, b))
```

Enter first number: 122  
Enter second number: 33  
Greatest: 122

#18. Print the Greatest of Three Numbers

```
a = int(input("Enter first number: "))  
b = int(input("Enter second number: "))  
c = int(input("Enter third number: "))  
print("Greatest:", max(a, b, c))
```

Enter first number: 111  
Enter second number: 222  
Enter third number: 22  
Greatest: 222

#19. Separate Positive and Negative Numbers from a List

```
x = [23, 4, -6, 23, -9, 21, 3, -45, -8]  
positive = [i for i in x if i >= 0]  
negative = [i for i in x if i < 0]  
print("Positive numbers:", positive)  
print("Negative numbers:", negative)
```

Positive numbers: [23, 4, 23, 21, 3]  
Negative numbers: [-6, -9, -45, -8]

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