Print first 10 natural numbers using while loop

print the following pattern

Calculate sum of all numbers from 1 to a given number

multiplication table by given number

If the number is greater than 150, then skip it and move to the following number

If the number is greater than 500, then stop the loop

Count the total number of digits in a number

```
In [8]: num=75869
    count=0
    while num!=0:
        num=num//10
        count=count+1
    print("Total digits are:",count)
Total digits are: 5
```

Print list in reverse order using a loop

Print list in reverse order using a loop

```
In [13]: list1 = [10, 20, 30, 40, 50]
    new_list = reversed(list1)
    for item in new_list:
        print(item)

50
    40
    30
    20
    10
```

Display numbers from -10 to -1 using for loop

```
In [14]: for num in range(-10,0,1):
    print(num)

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

Display a message "Done" after the successful execution of the for loop

```
In [15]: for i in range(5):
    print(i)
print("Done!")Display a message "Done" after the successful execution of the for

0
    1
    2
    3
    4
    Done!
```

print prime number between 25 and 50

```
In [16]:
          for i in range(25,51):
            if i%2==1:
              print(i)
             25
             27
             29
             31
             33
             35
             37
             39
             41
             43
             45
             47
             49
```

Display Fibonacci series up to 10 terms

```
In [17]:
          num1=int(input())
          num2=int(input())
          for i in range(10):
            num3=num1+num2
            print(num3)
            num1=num2
            num2=num3
             0
             1
             1
             2
             3
             5
             8
             13
             21
             34
             55
             89
```

Find the factorial of a given number

reverse a given number

```
In [1]: given_num=int(input("Enter a number: "))
    reverse_num=reversed (str(given_num))
    for i in reverse_num:
        print(i)

        Enter a number: 76542
        2
        4
        5
        6
        7
```

Print elements from a given list present at odd index positions

```
In [2]: my_list = [10, 20, 30, 40, 50, 60, 70, 80, 90, 100]
    for i in my_list[1::2]:
        print(i)

20
    40
    60
    80
    100
```

Calculate the cube of all numbers from 1 to a given number

```
In [3]: Given_num=int(input("Enter the given number: "))
for i in range(1,Given_num+1):
    print("Current number is",i,"and the cube is",i**3)

Enter the given number: 6
    Current number is 1 and the cube is 1
    Current number is 2 and the cube is 8
    Current number is 3 and the cube is 27
    Current number is 4 and the cube is 64
    Current number is 5 and the cube is 125
    Current number is 6 and the cube is 216
```

Find the sum of the series up to n terms

Print the following pattern