

**Aim:**

Your friend is a mathematician, and he needs your help in verifying a mathematical series. You have three inputs  $a$ ,  $b$ , and  $N$ . Your task is to print the output with the series that results from the following equation  $a + b^1, a + b^2, \dots, a + b^N$

**Input Format:**

- The first line of the input consists of an integer,  $a$ .
- The second line of the input consists of an integer  $b$  representing the base for the series.
- The third line of the input consists an integer,  $N$  representing the number of terms in the series.

**Output Format:**

- The output is a single line containing the space-separated terms of the given series.

**Source Code:**

series.py

```
a = int(input("a: "))
b = int(input("b: "))
N = int(input("N: "))
print("result: ",end="")
for i in range(1,N+1,1):
    c = a+(b**i)
    print(c,end=' ')
```

Execution Results - All test cases have succeeded!

Test Case - 1
User Output
a: 3
b: 2
N: 3
result: 5 7 11

  

Test Case - 2
User Output
a: 4
b: 3
N: 5
result: 7 13 31 85 247