

Sum or product

Problem Description: You are given with a number N and a choice C. If the user enters C equal to 1, then print sum of 1 to N numbers, but if user enters C equal to 2, then print product of 1 to N numbers and if user enters any other value of C then print -1.

How to approach?

1. Take the number N and choice C from the user.
2. Now if C is equal to 1, then run a while loop from number=1 to N to calculate their sum and print it.
3. If C is equal to 2, then run a while loop from number =1 to N to calculate their product and print it.
4. If C is any other number then just print -1.

Pseudo Code for this problem:

Input=N, C

If C=1:

sum=0, num=1

While num is less than equal to N:

sum=sum+num

Increment num by 1

print(sum)

If C=2:

product = 1, num = 1

While num is less than equal to N:

*product *= num;*

Increment num by 1

print(product)

Else:

print(-1)

❑ Let us dry run the code:

num= 10

C = 1

- As C=1:
 - Sum=0, num=1
sum=0+1=1
 - num=2
sum=1+2=3
 - num=3
sum=3+3=6
 - num=4
sum=6+4=10
 - num=5
sum=10+5=15
 - num=6
sum=15+6=21
 - num=7
sum=21+7=28
 - num=8
sum=28+8=36
 - num=9
sum=35+9=45
 - num=10
sum=44+10=55
 - num=11, move out of the loop and print sum
Final output:
55