

Sum of Even Numbers till N

Problem Description: In this question, you are given with a number N, you have to print the sum of all even number till N.

How to approach?

1. Take the number N as input from the user.
2. Initialize i from 0 and initial sum with 0 and run a loop upto n to sum the values of i by giving an increment of 2 at each step, so that only the even numbers are added.

Pseudo Code for the given problem:

n=input

i=0

sum=0

While i less than or equal to n:

sum=sum+i

i=i+2

print(sum)

❑ Let us dry run the given code for n=7

- $i=0, i \leq 7$ so $sum=0+0=0$.
- $i=0+2=2(\leq 7)$, so $sum=0+2=2$
- $i=2+2=4(\leq 7)$, so $sum=2+4=6$
- $i=4+2=6(\leq 7)$ so $sum=6+6=12$.
- $i=6+2=8(>7)$ so print $sum=12$ as output.