

## Sum of Even Numbers till N

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

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### 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.