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NPTEL (<https://swayam.gov.in/explorer?ncCode=NPTEL>) » **Problem Solving Through Programming In C (course)**

Week 4 : Programming Assignment 4

Due on 2023-08-24, 23:59 IST

Write a Program to find the sum of all even numbers from 1 to N where the value of N is taken as input. [For example when N is 10 then the sum is $2+4+6+8+10 = 30$]

Private Test cases used for evaluation

Test Case 1

Input	Expected Output	Actual Output	Status
25	Sum = 156	Sum = 156	Passed
30	Sum = 240	Sum = 240	Passed

Test Case 2

The due date for submitting this assignment has passed.

2 out of 2 tests passed.

You scored 100.0/100.

Assignment submitted on 2023-08-23, 22:48 IST

Your last recorded submission was :

```

1 #include <stdio.h>
2 void main()
3 {
4     int N, sum=0;
5     scanf("%d", &N); /* The value of N is taken from the test cases */
6
7     /* Complete the program. Please use the printf statement given below to
8     exactly match your output with the test cases.
9
10    printf("Sum = %d", sum);
11
12    */
13    for(int i=2;i<=N;i++)
14    {
15        if(i%2==0)
16            sum=sum+i;
17    }
18    printf("Sum = %d",sum);

```

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Course outline

**How does an
NPTEL
online
course
work? ()**

Week 0 : ()

Week 1 ()

Week 2 ()

Week 3 ()

Week 4 ()

☐ Lecture 16: IF-
ELSE

Statement
(Contd.) (unit?
unit=44&lesso
n=45)

☐ Lecture 17:
Switch
statement
(unit?
unit=44&lesso
n=46)

☐ Lecture 18:
Switch
Statement
(Contd.) and
Introduction
to Loops
(unit?
unit=44&lesso
n=47)

☐ Lecture 19:
Implementing
Repetitions
(Loops) (unit?
unit=44&lesso
n=48)

☐ Lecture 20:
Implementati
on of Loops
with for
Statement
(Contd.) (unit?
unit=44&lesso
n=49)

☒ Quiz: Week 4 :
Assignment 4
(assessment?
name=230)

☒ Week 4 :
Programming
Assignment 1
(/noc23_cs121
/progassignm
ent?
name=231)

☒ Week 4 :
Programming
Assignment 2
(/noc23_cs121
/progassignm
ent?
name=232)

19 }

Sample solutions (Provided by instructor)

```

1 #include <stdio.h>
2 void main()
3 {
4     int N, sum=0;
5     scanf("%d", &N); /* The value of N is taken from the test cases */
6
7     /* Complete the program. Please use the printf statement given below to
8     exactly match your output with the test cases.
9
10    printf("Sum = %d", sum);
11
12    */
13    int i;
14    for (i = 1; i <= N; i++)
15    {
16        if (i % 2 == 0)
17            sum = sum + i;
18    }
19    printf("Sum = %d", sum);
20 }
```

● Week 4 :
Programming
Assignment 3
(/noc23_cs121
/progassignment?
name=233)

● **Week 4 :
Programmin
g Assignment
4
(/noc23_cs12
1/progassign
ment?
name=234)**

○ Feedback
Form of Week
4 (unit?
unit=44&lesso
n=235)

○ Assignment 4
Solution (unit?
unit=44&lesso
n=51)

Week 5 ()

Week 6 ()

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**Problem
Solving
Session -
July 2023 ()**