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



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## Week 4 : Programming Assignment 3

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

Write a program to find the factorial of a given number using while loop.

If already  
registered, click  
to check your  
payment status

**Private Test cases  
used for evaluation**

	Input	Expected Output	Actual Output	Status
Test Case 1	11	The Factorial of 11 is : 39916800	The Factorial of 11 is : 39916800	Passed
Test Case 2	7	The Factorial of 7 is : 5040	The Factorial of 7 is : 5040	Passed

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, 22:46 IST**

Your last recorded submission was :

```

1 #include<stdio.h>
2 void main()
3 {
4     int n;
5     long int fact; /* n is the number whose factorial we have to find and fa
6     scanf("%d",&n); /* The value of n is taken from test cases */
7
8     /* complete the program. Use the printf statements in the format mentioned be
9     to match your output exactly with output test cases
10
11 printf("The Factorial of %d is : %ld",n,fact);
12
13 You can declare any other variables if required */
14 fact=1;
15 for(int i=1;i<=n;i++)
16     fact=fact*i;
17 printf("The Factorial of %d is : %ld",n,fact);

```

### 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)

18 }

Sample solutions (Provided by instructor)

```

1 #include<stdio.h>
2 void main()
3 {
4     int n;
5     long int fact; /* n is the number whose factorial we have to find and f
6     scanf("%d",&n); /* The value of n is taken from test cases */
7
8     /* complete the program. Use the printf statements in the format mentioned be
9     to match your output exactly with output test cases
10
11 printf("The Factorial of %d is : %ld",n,fact);
12
13 You can declare any other variables if required */
14 int i=1;
15 fact = 1;
16 while(i<=n)
17 {
18     fact*=i;
19     i++;
20 }
21 printf("The Factorial of %d is : %ld",n,fact);
22 }
```

☒ **Week 4 :**  
**Programmin**  
**g Assignment**  
**3**  
**(/noc23\_cs12**  
**1/progassign**  
**ment?**  
**name=233)**

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☒ Week 4 :  
Programming  
Assignment 4  
(/noc23\_cs121  
/progassignm  
ent?  
name=234)

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

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

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**Week 5 ()**

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**Week 6 ()**

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**DOWNLOAD**  
**VIDEOS ()**

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**Books ()**

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**Text**  
**Transcripts ()**

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