


<https://swayam.gov.in>

https://swayam.gov.in/nc_details/NPTEL

200801199@rajalakshmi.edu.in ▾

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



Click to register
for Certification
exam

https://examform.nptel.ac.in/2023_10/exam_form/dashboard

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, 20:50 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 {
17     fact=fact*i;
18 }
19 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 ()

Week 5 ()

Week 6 ()

**DOWNLOAD
VIDEOS ()**

Books ()

**Text
Transcripts ()**

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

20 |
21 | }

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 fact is the factorial of n */
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 below
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 }
```