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

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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

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.

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);
```

```
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 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 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 : Programming Assignment 3 (/noc23_cs121/progassignment?name=233)**

● Week 4 : Programming Assignment 4 (/noc23_cs121/progassignment?name=234)

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

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

Week 5 ()

Week 6 ()

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