Week-04 Program-02

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

Sample Test Cases

<table>
<thead>
<tr>
<th>Input</th>
<th>Output</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test Case 1</td>
<td>10 The Factorial of 10 is : 3628800</td>
</tr>
<tr>
<td>Test Case 2</td>
<td>11 The Factorial of 11 is : 39916800</td>
</tr>
<tr>
<td>Test Case 3</td>
<td>5 The Factorial of 5 is : 120</td>
</tr>
<tr>
<td>Test Case 4</td>
<td>7 The Factorial of 7 is : 5040</td>
</tr>
</tbody>
</table>

The due date for submitting this assignment has passed.
As per our records you have not submitted this assignment.

Sample solutions (Provided by instructor)

```c
#include<stdio.h>
void main()
{
    int n;
    long int fact; /* n is the number whose factorial we have to find
        scanf("%d",&n); /* The value of n is taken from test cases */
    /* complete the program. Use the printf statements in the format mention
        to match your output exactly with output test cases
        printf("The Factorial of %d is : %ld",n,fact);
    You can declare any other variables if required */
    int i=1;
```
Statement (Contd.) and Introduction to Loops (unit? unit=5&lesson=32)

Lecture 19: Implementing Repetitions (Loops) (unit? unit=5&lesson=33)

Lecture 20: Implementation of Loops with for Statement (Contd.) (unit? unit=5&lesson=34)

Quiz : Assignment 4 (assessment? name=103)

Week-04 Program-01 (/noc20_cs06/progassignment? name=109)

Week-04 Program-02 (/noc20_cs06/progassignment? name=110)

Week-04 Program-03 (/noc20_cs06/progassignment? name=111)

Week-04 Program-04 (/noc20_cs06/progassignment? name=112)

Week-04 Program-05 (/noc20_cs06/progassignment? name=113)

Feedback For Week 4 (unit? unit=5& lesson=115)

Week 5

Week 6

Week 7

Week 8

Week 9

16  fact = 1;
17  while( i <= n)
18    { fact*=i;
19      i++;
20    }
21  printf("The Factorial of %d is : %ld",n,fact);
Week 10

Week 11

Week 12

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Assignment Solution