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Name of the Course: IT Workshop

Course Code: PCC-CS393

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Class Roll No.: 3

University Roll No.: 10900120003

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18. Write a program for the factorial of a number.

Sample Test	Input	Output
Test Case 1	n=7	The factorial of 7 is : 5040
Test Case 2	n=6	The factorial of 6 is : 720
Test Case 2	n=9	The factorial of 9 is : 362880

Program :-

```python
# 18. Write a program for the factorial of a number.

num = int(input("Enter a no. : "))
fact = 1
if num < 0:
    print("No factorial.")
elif num == 0:
    print("The Factorial of 0 is 1")
else:
```

```
    for i in range(1, num + 1):
        fact =fact * i
    print("The factorial of",num,"is",fact)
```

Output :-

- ## Test case 1 -

Sample Test	Input	Output
Test Case 1	n=7	The factorial of 7 is : 5040

```
PS C:\Users\lenovo\Desktop\python lab exam> python -u "c:
Enter a no. : 7
factorial of 7 is 5040
PS C:\Users\lenovo\Desktop\python lab exam>
```

- ## Test case 2 -

Test Case 2	n=6	The factorial of 6 is : 720

```
PS C:\Users\lenovo\Desktop\python lab exam> python -
Enter a no. : 6
factorial of 6 is 720
PS C:\Users\lenovo\Desktop\python lab exam>
```

*Test Case 3 –

Test Case 2	n=9	The factorial of 9 is : 362880

```
PS C:\Users\lenovo\Desktop\python lab
Enter a no. : 9
factorial of 9 is 362880
PS C:\Users\lenovo\Desktop\python lab
```

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