



SYMBIOSIS INSTITUTE OF TECHNOLOGY

DEPARTMENT OF COMPUTER SCIENCE AND INFORMATION TECHNOLOGY

Software Testing and Quality Assurance

Lab Assignment – 3

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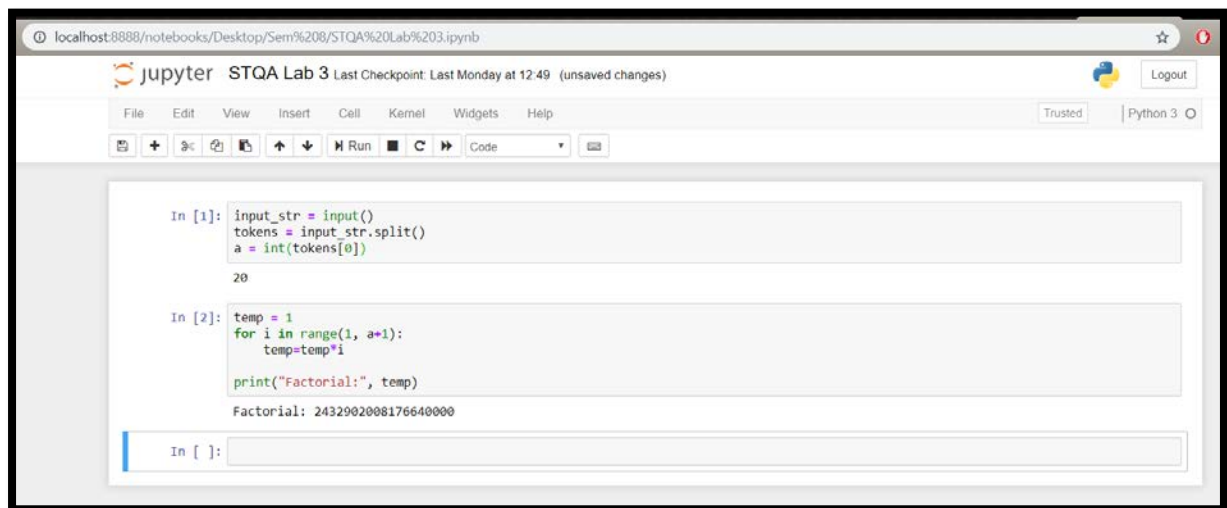
Question: Write a program in any language to find factorial of a number. Write different number of test cases, expected output and compare it with the actual output.

Code (written in Python 3 with Jupyter Notebooks):

```
input_str = input()
tokens = input_str.split()
a = int(tokens[0])
temp = 1
for i in range(1, a+1):
    temp=temp*i

print("Factorial:", temp)
```

Output:

A screenshot of a Jupyter Notebook interface. The browser address bar shows 'localhost:8888/notebooks/Desktop/Sem%208/STQA%20Lab%203.ipynb'. The notebook title is 'STQA Lab 3' with a last checkpoint of 'Last Monday at 12:49' and '(unsaved changes)'. The menu bar includes File, Edit, View, Insert, Cell, Kernel, Widgets, and Help. The toolbar shows icons for file operations, running, and code execution. The code area contains two input cells. The first cell (In [1]) contains the code to read input and split it. The second cell (In [2]) contains the code to calculate the factorial. The output of the second cell is 'Factorial: 2432902008176640000'. The bottom of the interface shows an empty input prompt 'In []: '.

Test Cases:

Sr. No.	Size	Input	Expected Output	Actual Output	Status
1	1	2	2	2	Pass
2	1	5	120	120	Pass
3	1	1	1	1	Pass
4	0	-	Null	Error	Fail
5	1	-1	Null	Error	Fail
6	1	0	1	1	Pass