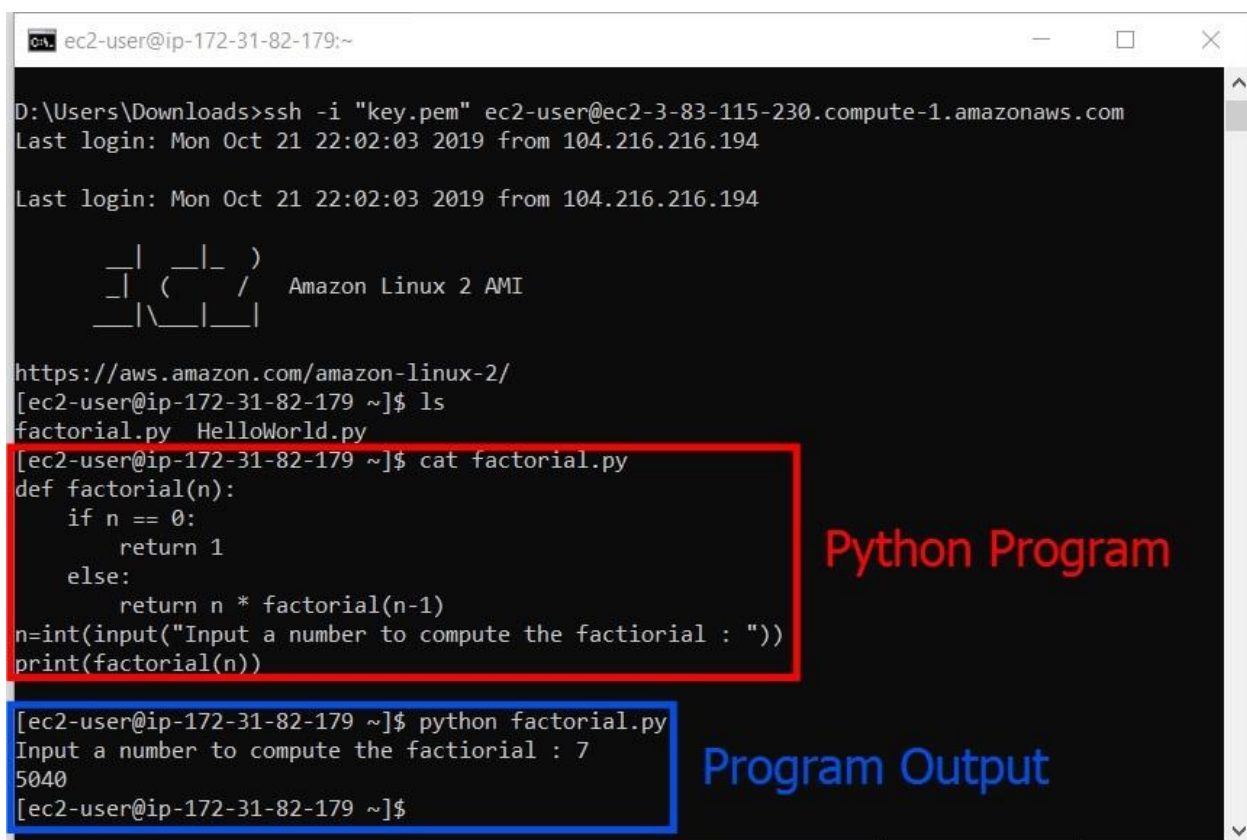


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Assignment #5: Lab Report

Task 1:

The editor I used was AWS Cloud9: <https://aws.amazon.com/cloud9/>, which gives me the flexibility of running my development server on a managed Amazon EC2 or any existing Linux server that supports SSH. I wrote, ran, and debugged applications with just a browser—no local IDE.



The screenshot shows a terminal window titled "ec2-user@ip-172-31-82-179:~". The terminal output includes the SSH command used to connect to the EC2 instance, the login message, the Amazon Linux 2 AMI logo, and the URL for the AMI. The user then lists files in the home directory, showing "factorial.py" and "HelloWorld.py". The content of "factorial.py" is displayed, which is a Python function to calculate the factorial of a number. The user then runs the program with "python factorial.py", enters the number 7, and the output is 5040. The code for the factorial function and the execution command/output are highlighted with red and blue boxes, respectively.

```
ec2-user@ip-172-31-82-179:~  
D:\Users\Downloads>ssh -i "key.pem" ec2-user@ec2-3-83-115-230.compute-1.amazonaws.com  
Last login: Mon Oct 21 22:02:03 2019 from 104.216.216.194  
  
Last login: Mon Oct 21 22:02:03 2019 from 104.216.216.194  
  
  _|_  _|_ )  
  _|_ ( _|_ /  Amazon Linux 2 AMI  
  _|\_|_|_|_|  
  
https://aws.amazon.com/amazon-linux-2/  
[ec2-user@ip-172-31-82-179 ~]$ ls  
factorial.py  HelloWorld.py  
[ec2-user@ip-172-31-82-179 ~]$ cat factorial.py  
def factorial(n):  
    if n == 0:  
        return 1  
    else:  
        return n * factorial(n-1)  
n=int(input("Input a number to compute the factiorial : "))  
print(factorial(n))  
[ec2-user@ip-172-31-82-179 ~]$ python factorial.py  
Input a number to compute the factiorial : 7  
5040  
[ec2-user@ip-172-31-82-179 ~]$
```

Python Program

Program Output

Task 2:

C++ Weblink: <https://www.cpp.edu/~oslu/>

EC2 Weblink: <http://ec2-3-83-115-230.compute-1.amazonaws.com/>