
# Lab # 08

## Operating System

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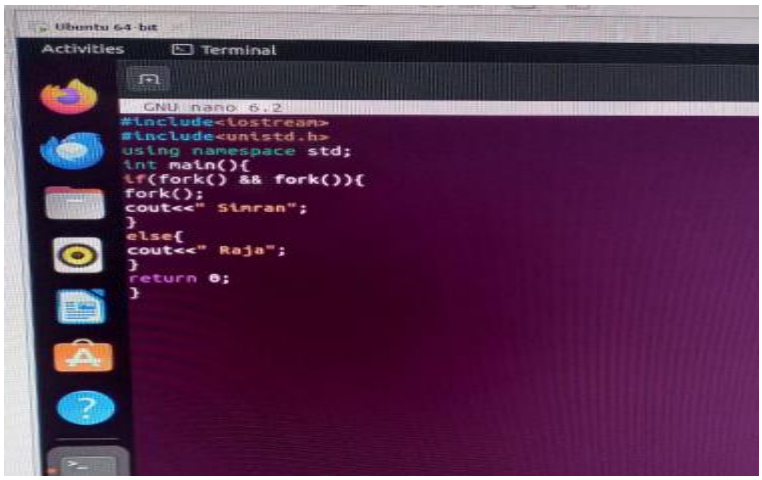
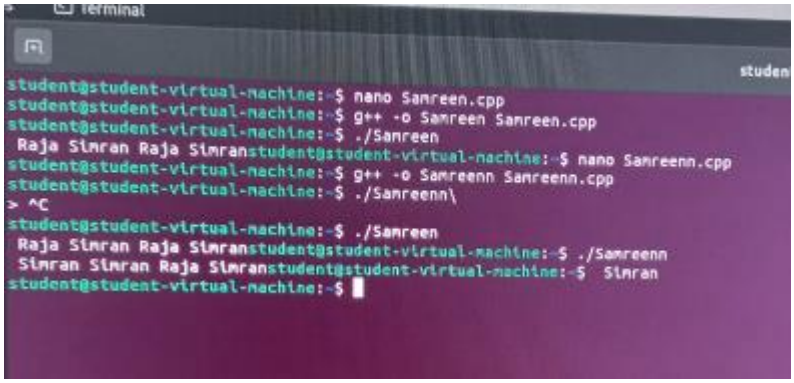
Batch: BSCS-5th semester

Submitted to: Kauser Nasreen

**Q1.**

Write a C/C++ program that uses the fork () function and the logical AND (&&) operator.



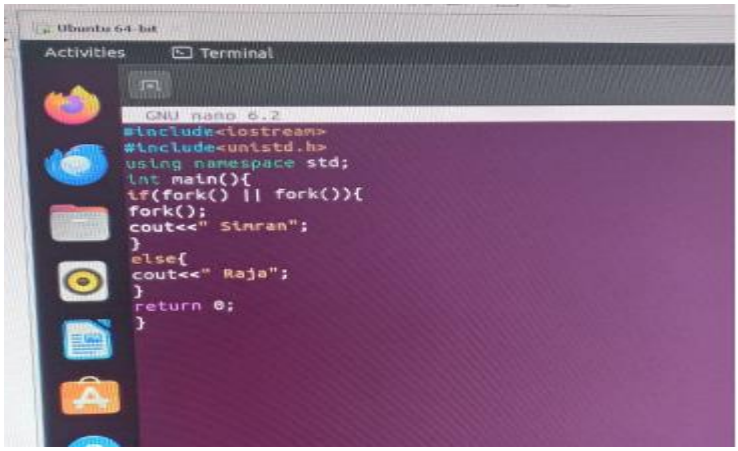

Fork () creates a new process (child process) that runs the same code as the parent process but independently. The || (And) operator means that if both of the fork () calls creates a child process (i.e., returns 0), the condition becomes true. This leads to running the code inside the if block. If the condition is true, a third fork () is called, creating another child process.

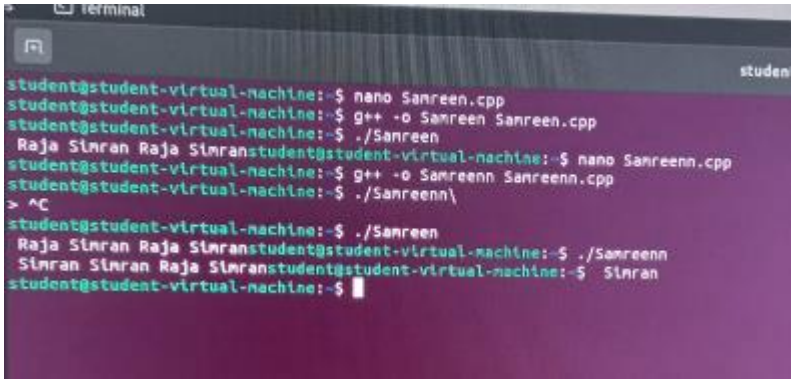
else block:

If the condition is false (both fork () calls return 0).

**Q2.**

Write a C/C++ program that uses the fork () function and the logical OR (II) operator.



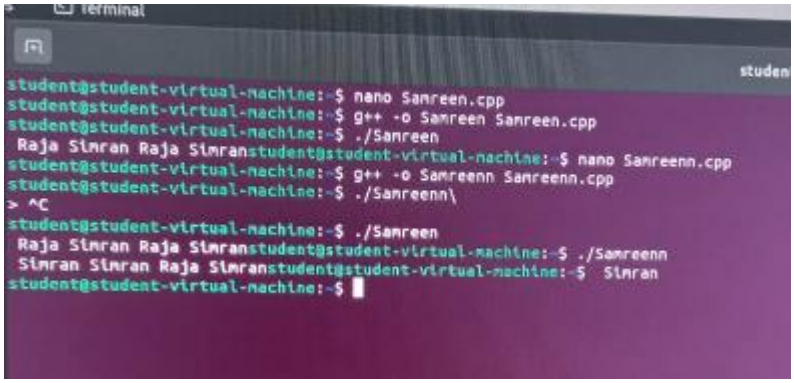

Fork () creates a new process (child process) that runs the same code as the parent process but independently. The || (OR) operator means that if either of the fork () calls creates a child process (i.e., returns 0), the condition becomes true. This leads to running the code inside the if block. If the condition is true, a third fork () is called, creating another child process.

else block:

If the condition is false (both fork () calls return 0).

Q3.

Write a C++ program that uses `fork ()` to create a child process. Use an `if-else` statement.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