National Textile University

Department of Computer Science

Name

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Reg No:

# 23-NTU-CS-FL-1160

Semester:

5th

Lab:

06

Submitted to:

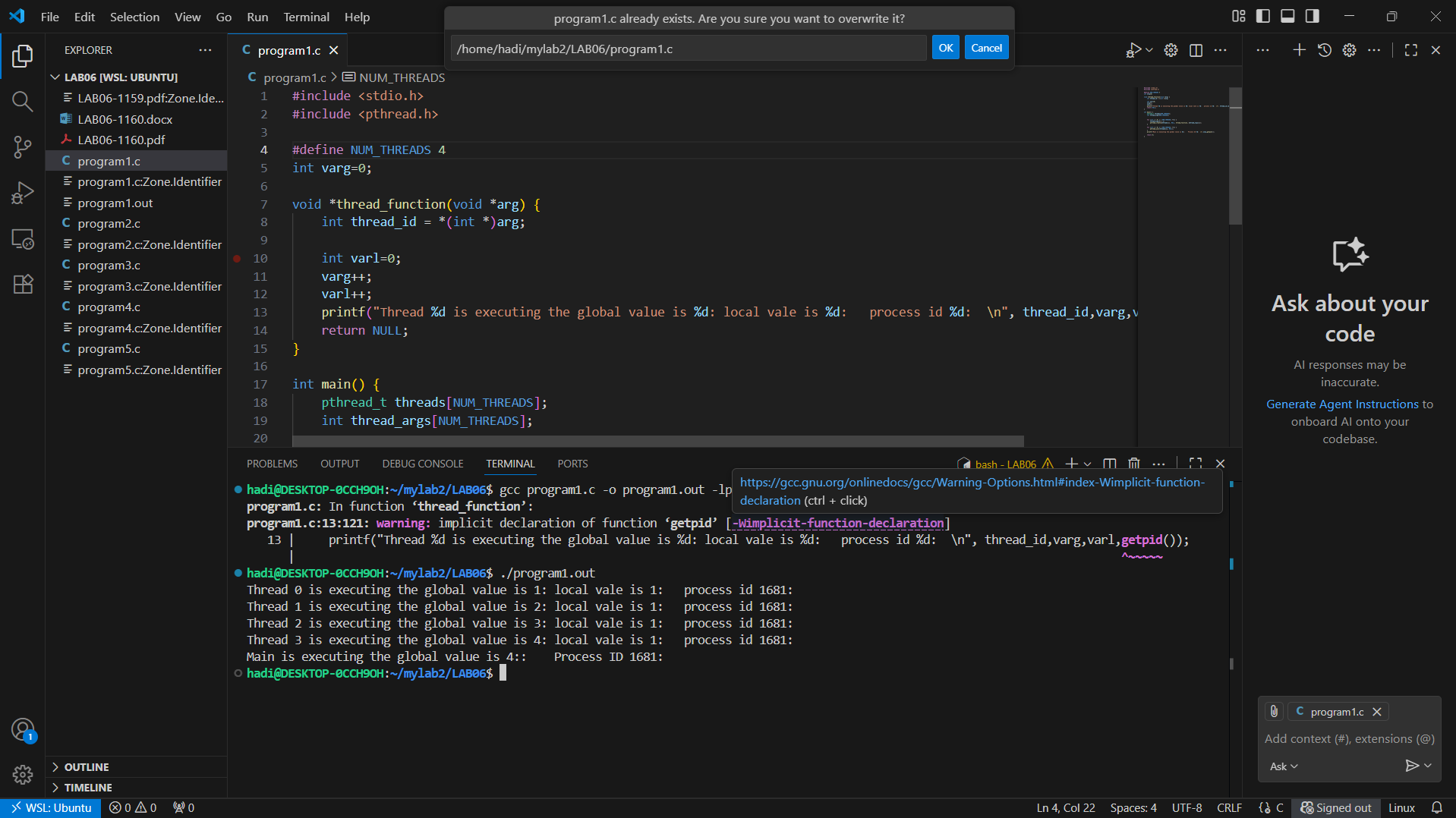
Sir Nasir Mehmood

# LAB-06

In this LAB we discuss some programs about synchronous using Peterson and Mutex Algorithm

|  |  |
| --- | --- |
| PeterSon Algorithm | Mutex Algorithm |
| * In this we use While Loop for the iteration and check the Synchronization. * In this we write all code by hand * The steps include o Flag [2] o Turn   o While loop | * In this we use a built-In Function Pthread\_mutex\_t object * In this all computation will be by the Built-in Function * The function we use are o Pthread\_mutex\_t o Pthread\_mutex\_init   o Pthread\_mutex\_destroy |

Program1-Multi-Threading

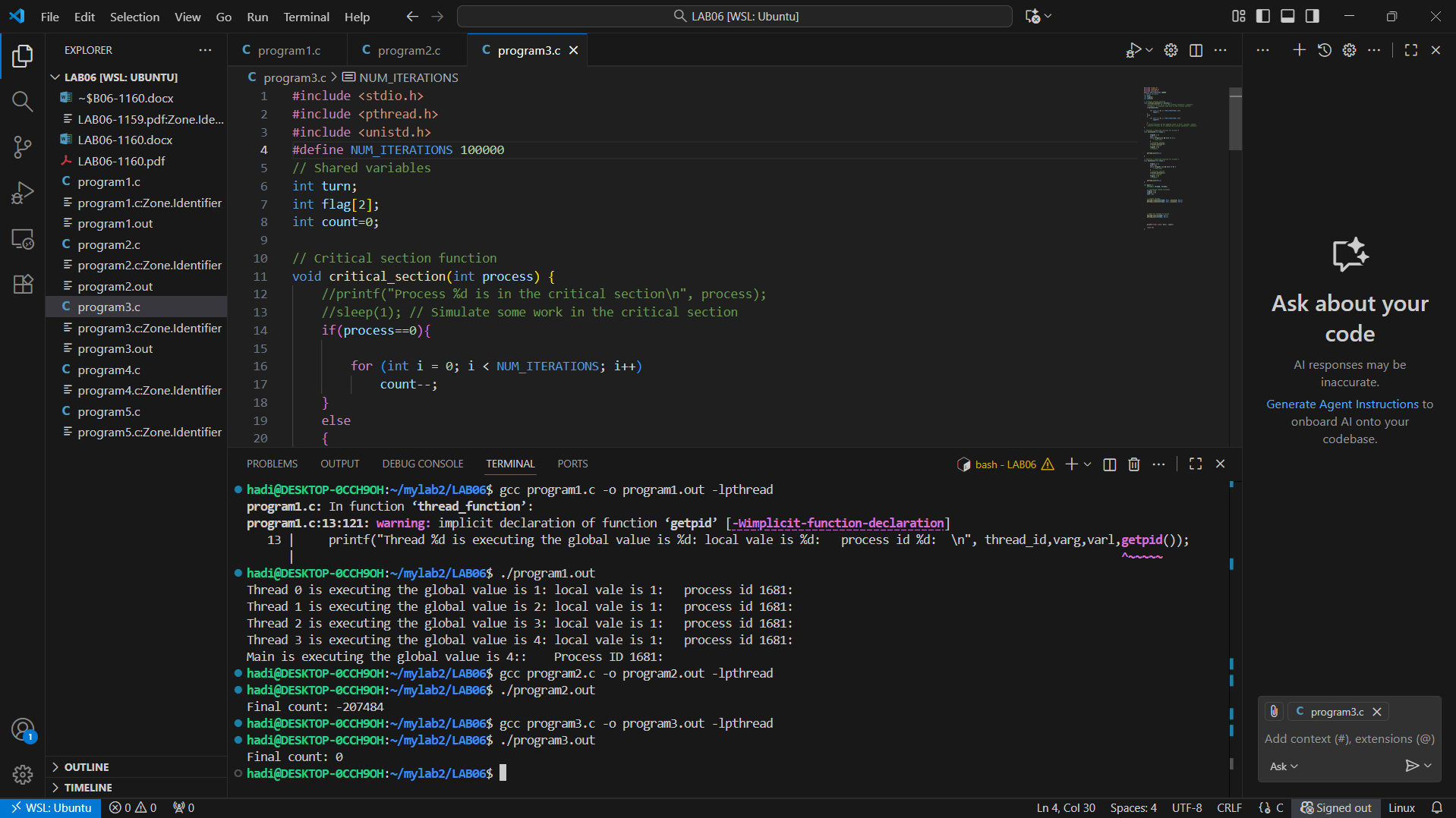


Program2 – Multi\_Processing without synchronization

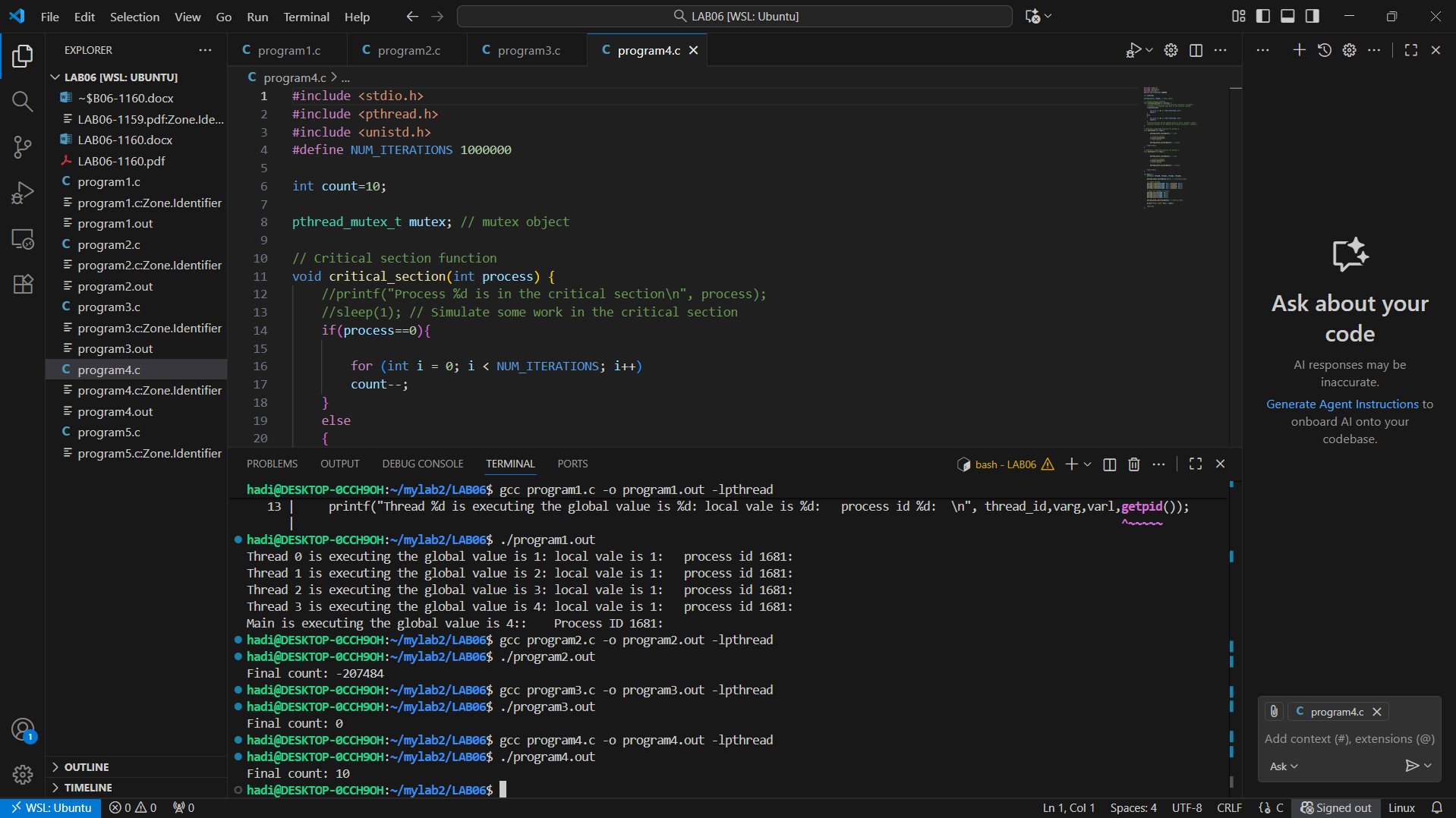
A screenshot of a computer program

AI-generated content may be incorrect.

Program3- Multi\_Processing with PeterSon Algorithm



Program 4 – Multiprocessing with Mutex



Program 5 – Multiprocessing (4 process) with mutex

A screenshot of a computer program

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