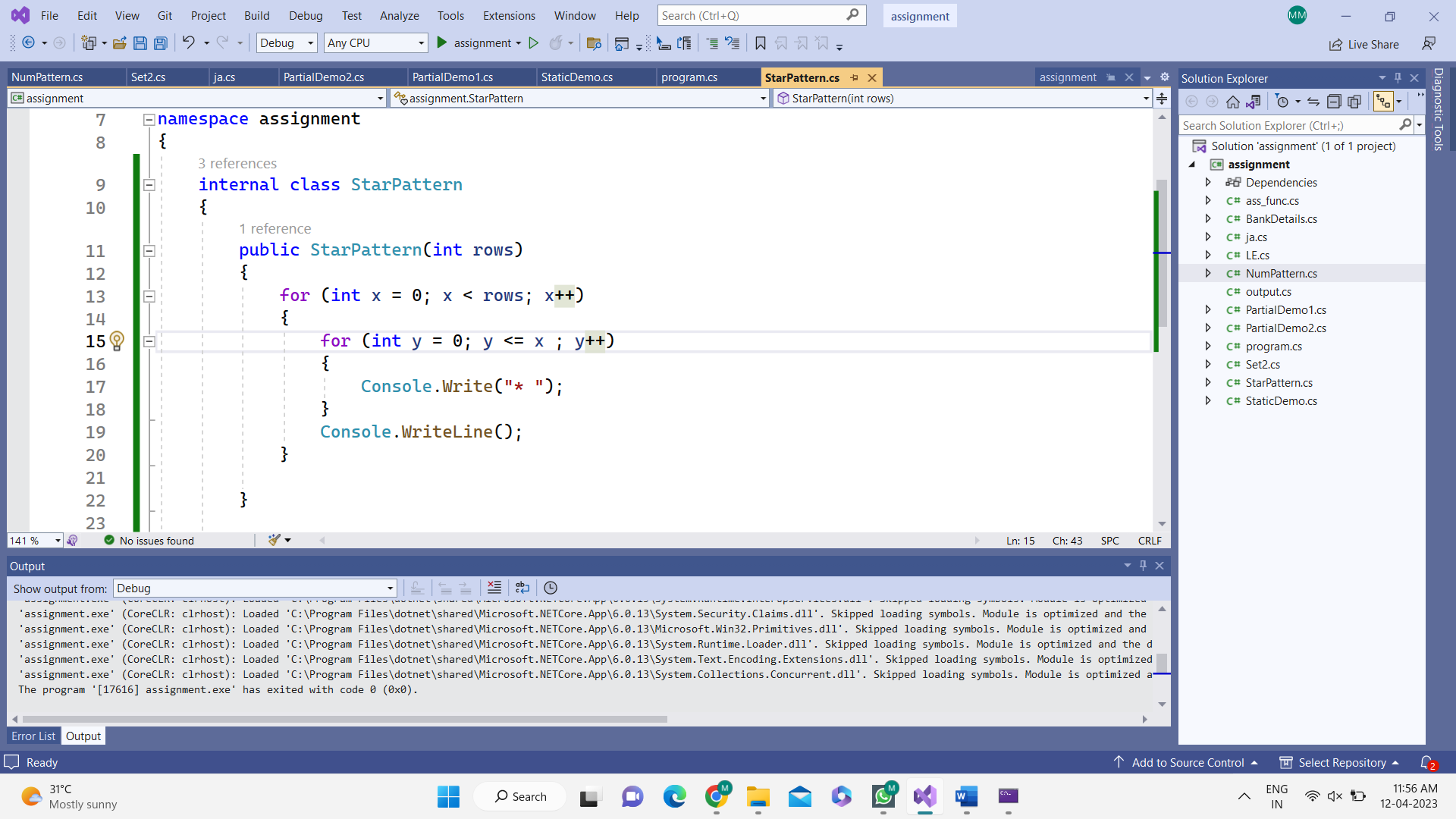
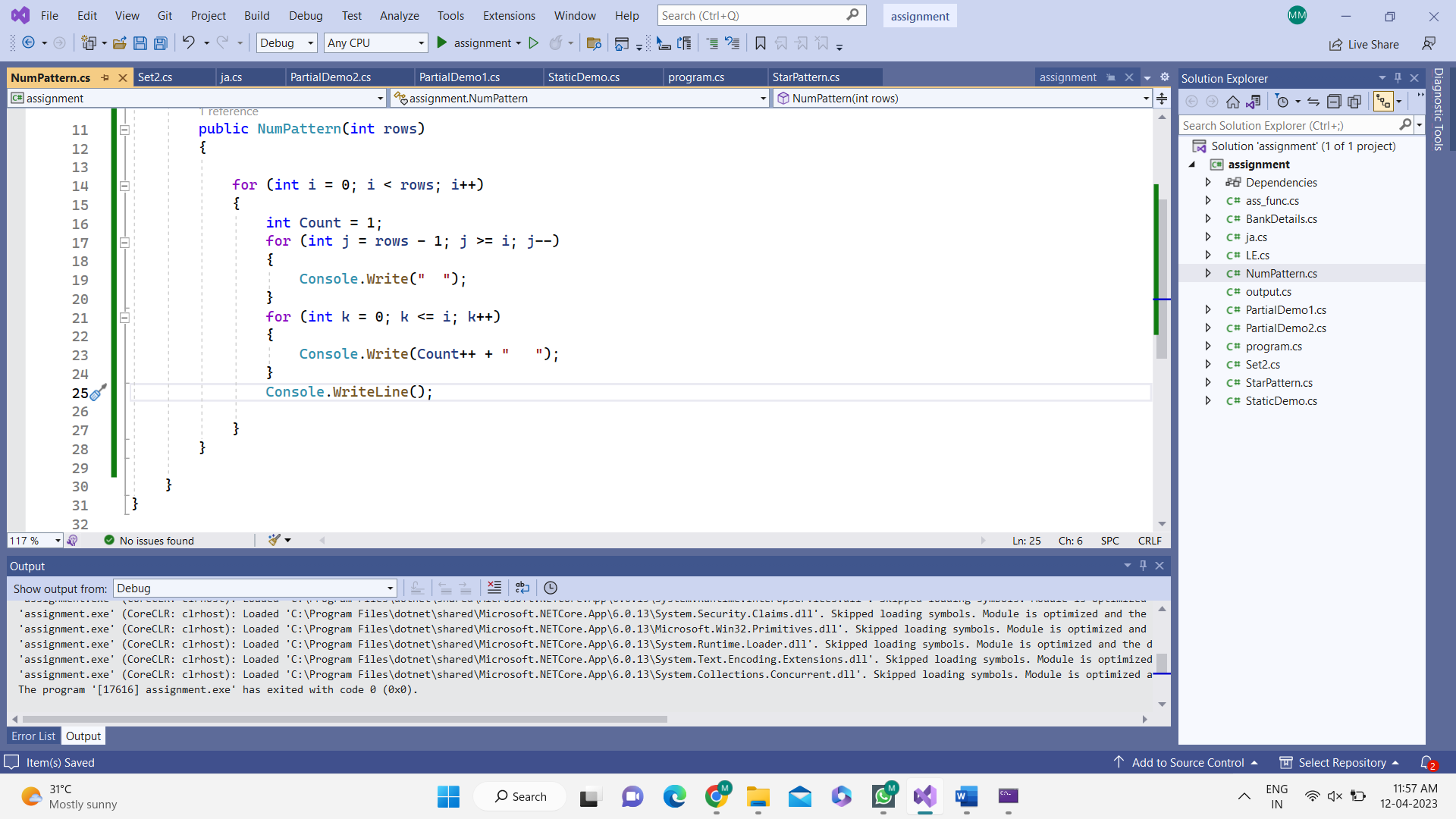
**NAME: Mahasri M**

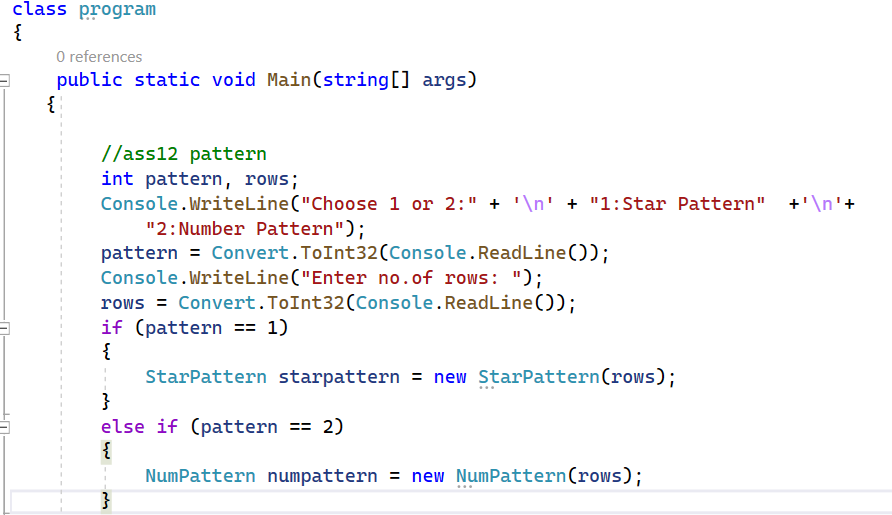
**1. Generate both the following patterns. Use methods to invoke based on choice of numeric or**

**character pattern from the user.**

**Star pattern:**

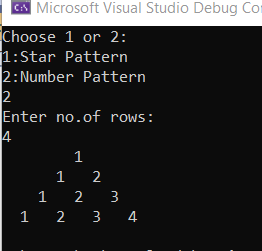
**Number pattern:**

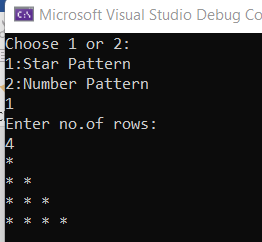


****

**OUTPUT:**

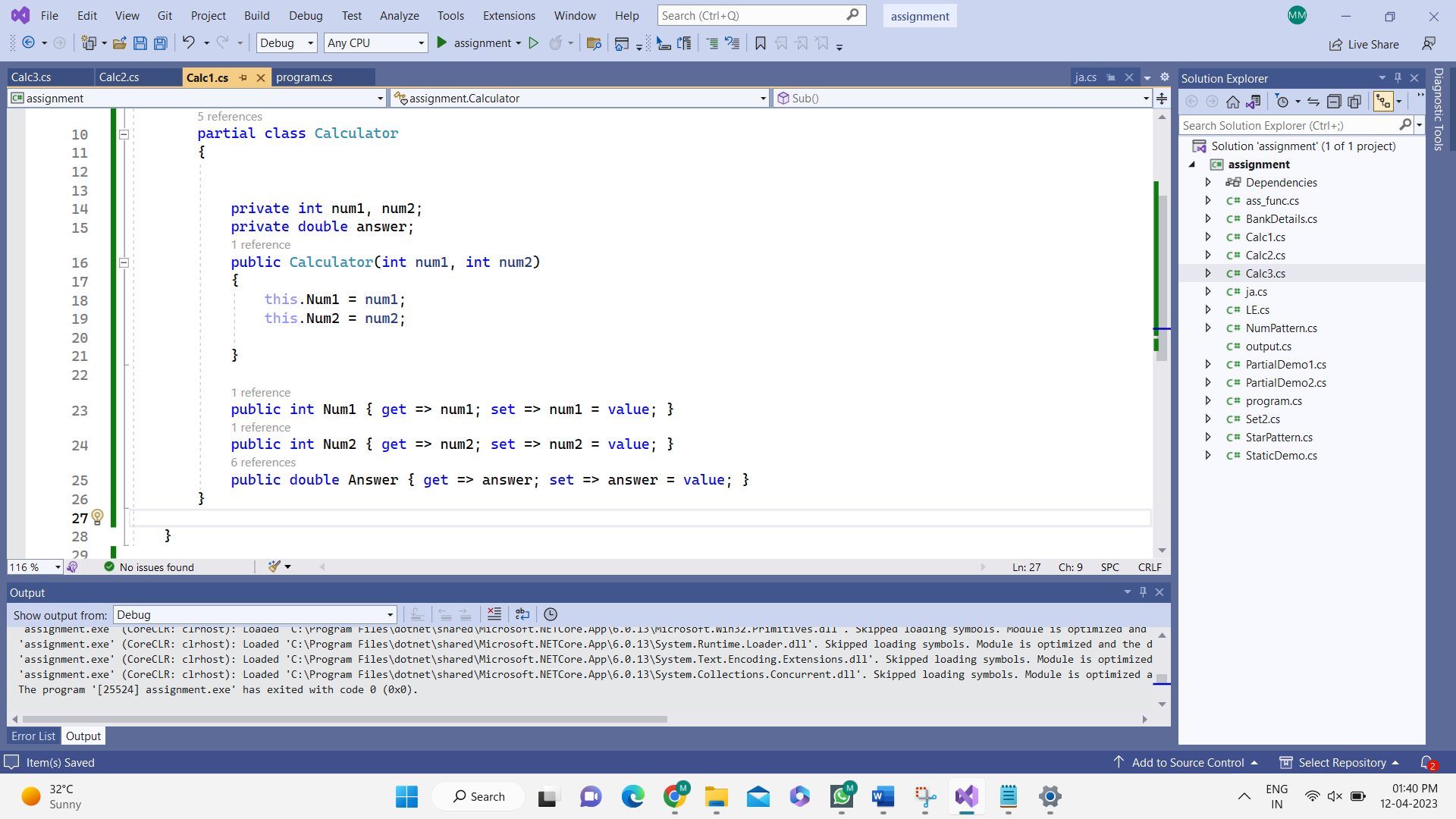
**Star pattern: Number pattern:**

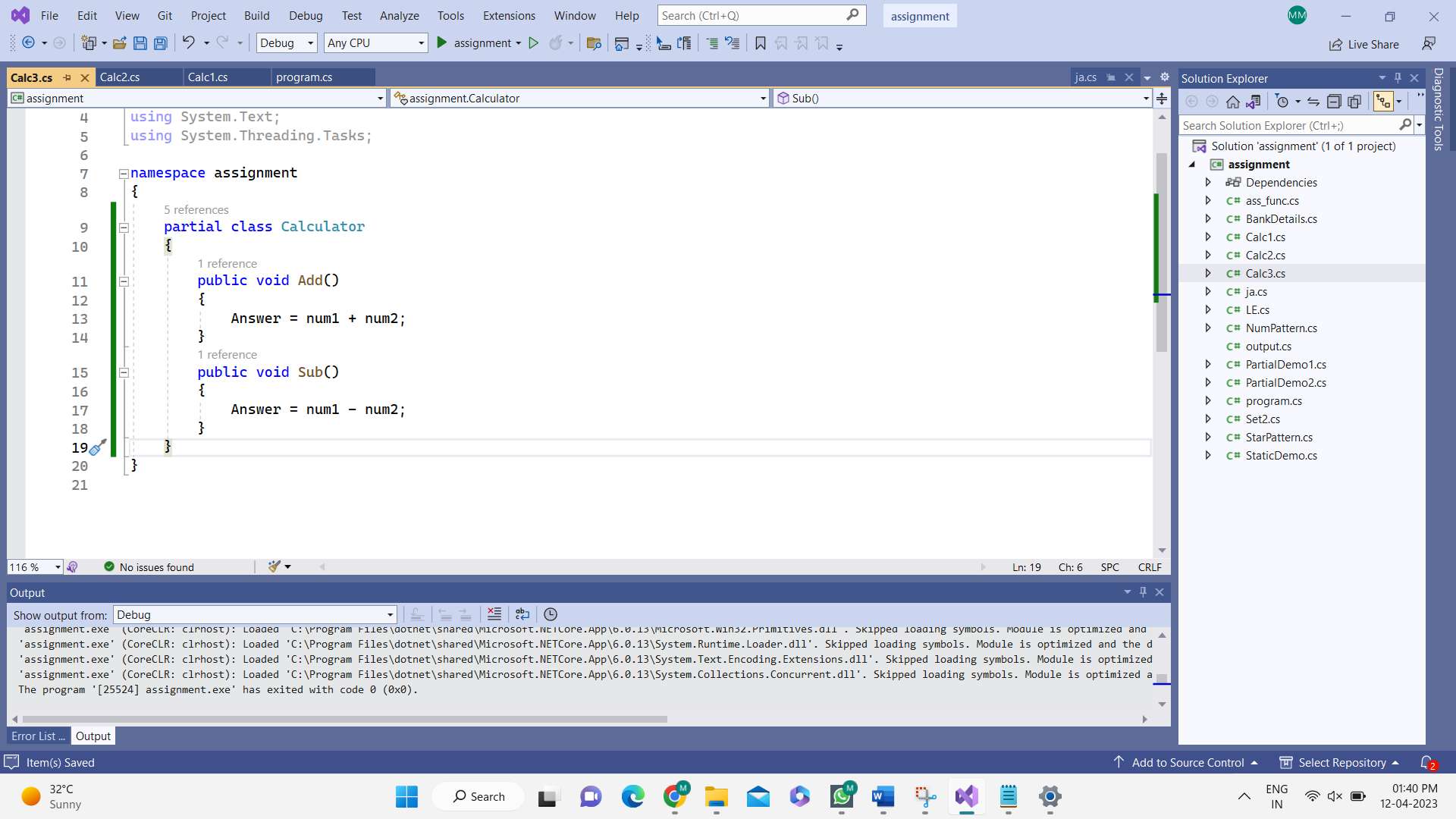
****

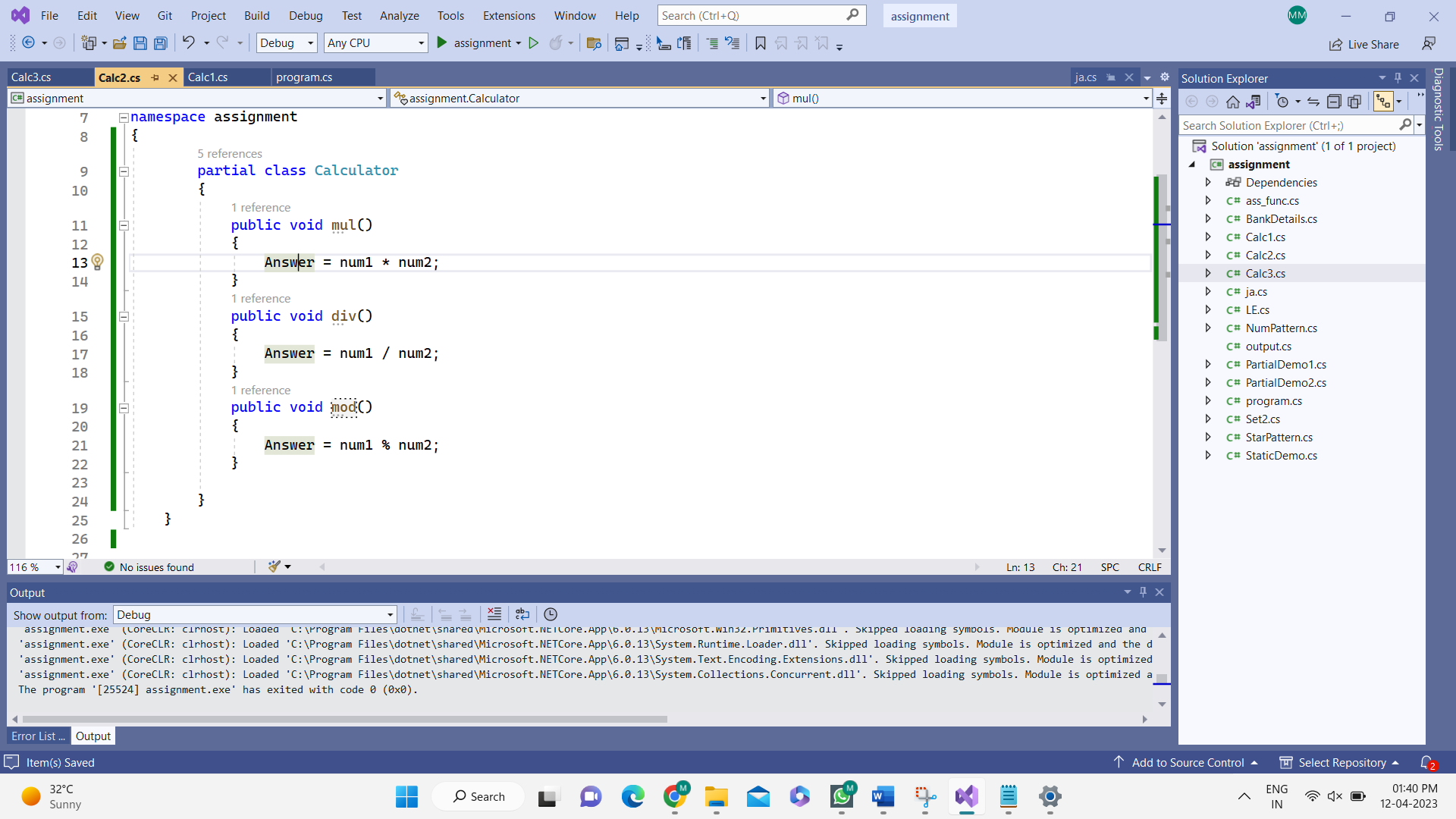
****

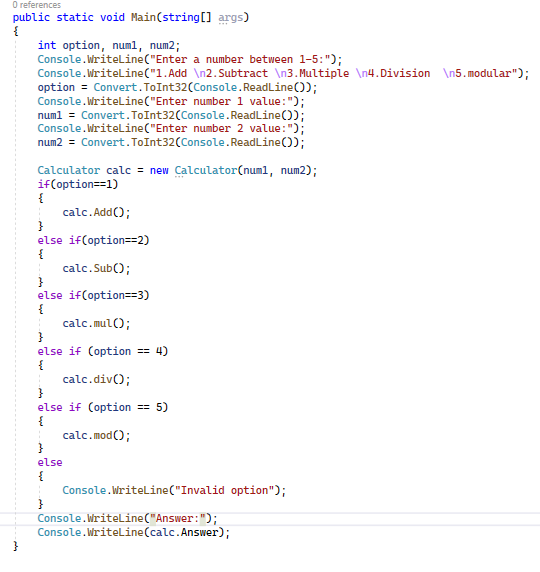
**2. Answer both the problems**

**a. Create partial class for Calculator and perform basic operations (add, sub, mul, div, mod).**

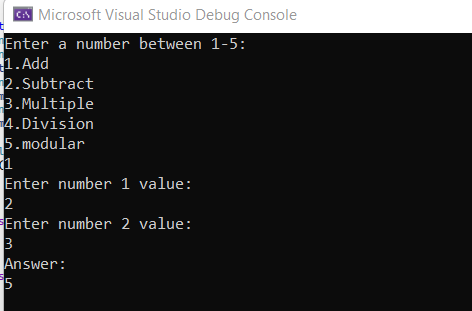
**Distribute the methods in 3 classes.**





****

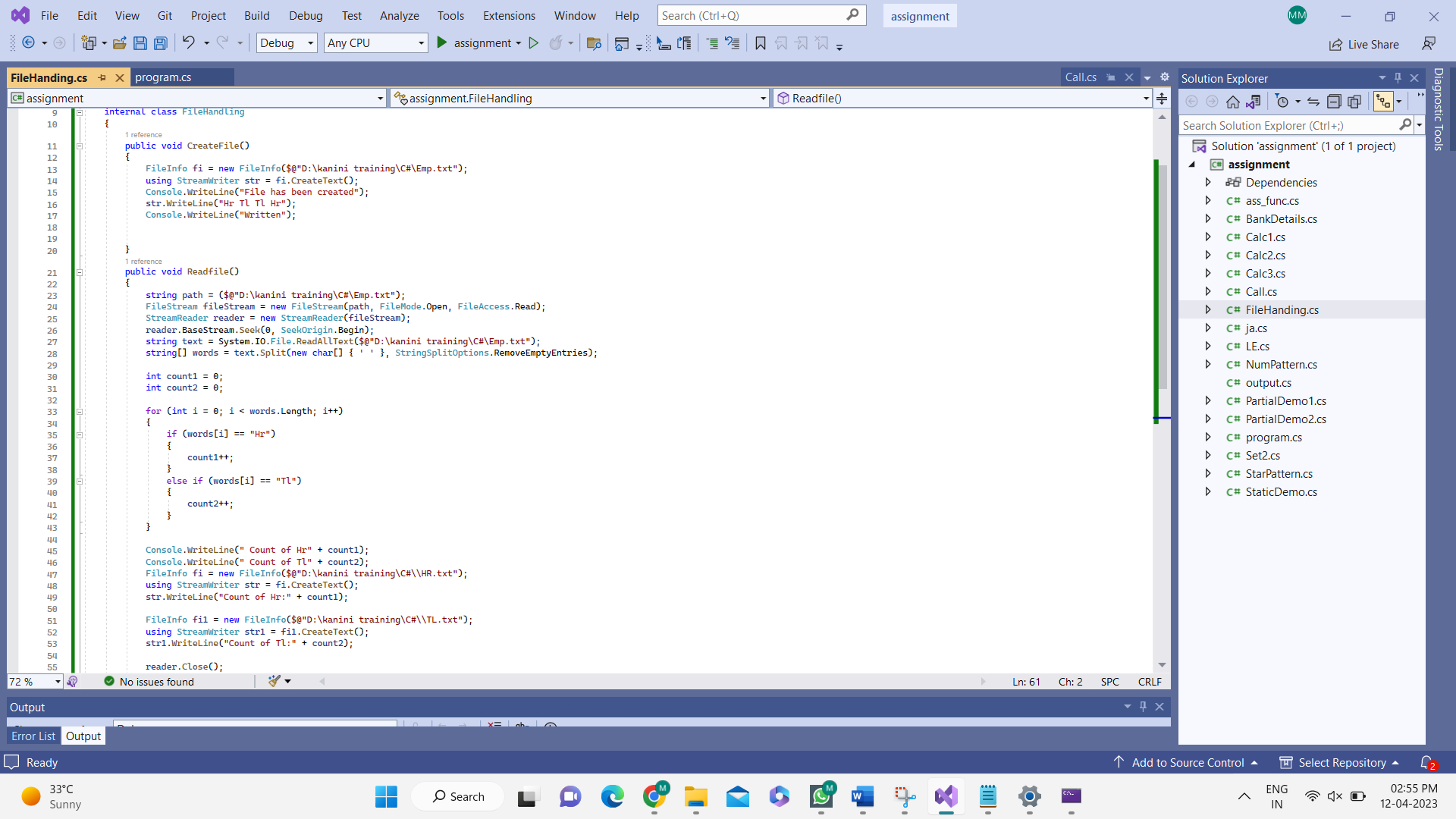
**OUTPUT:**

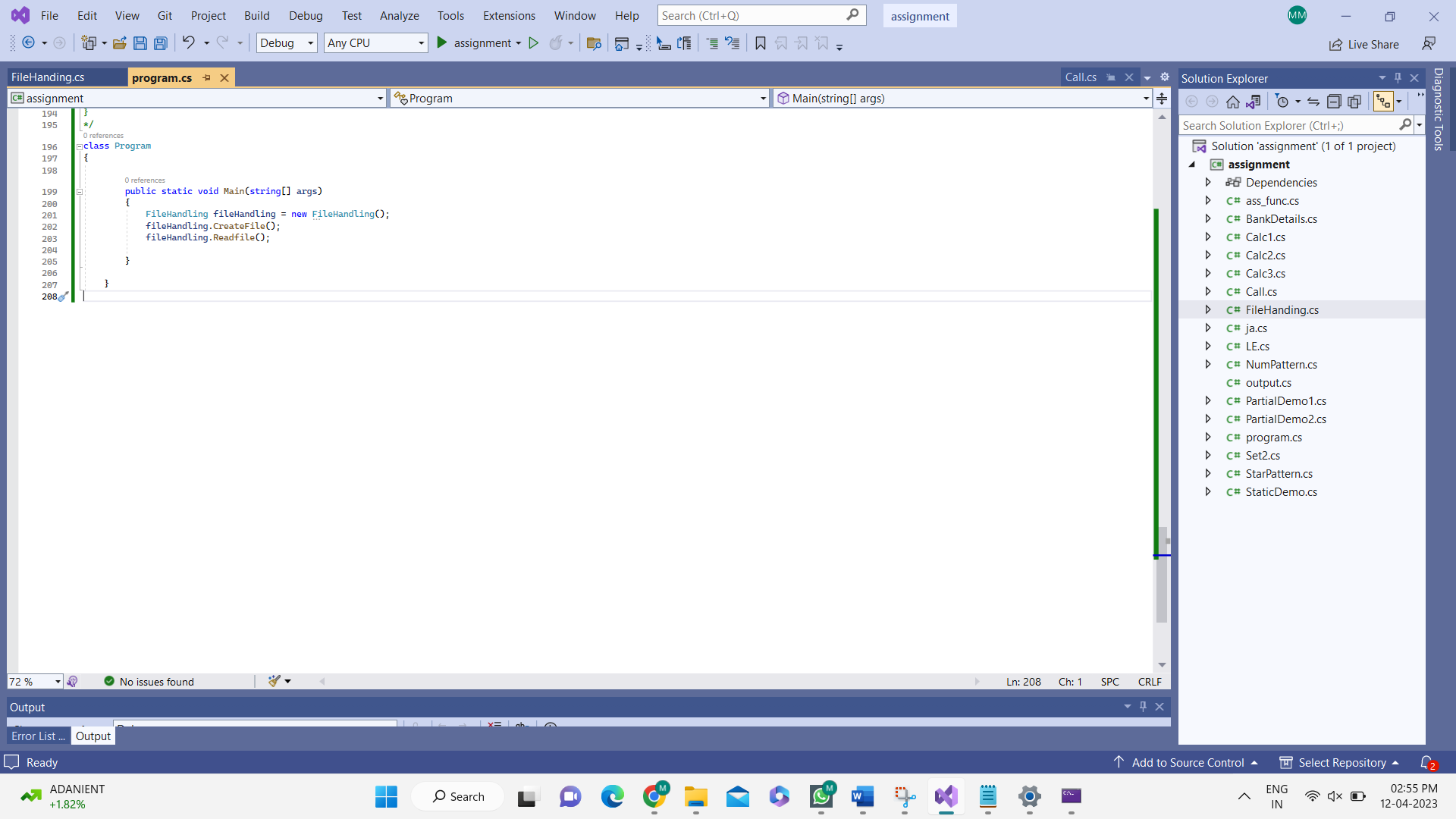
****

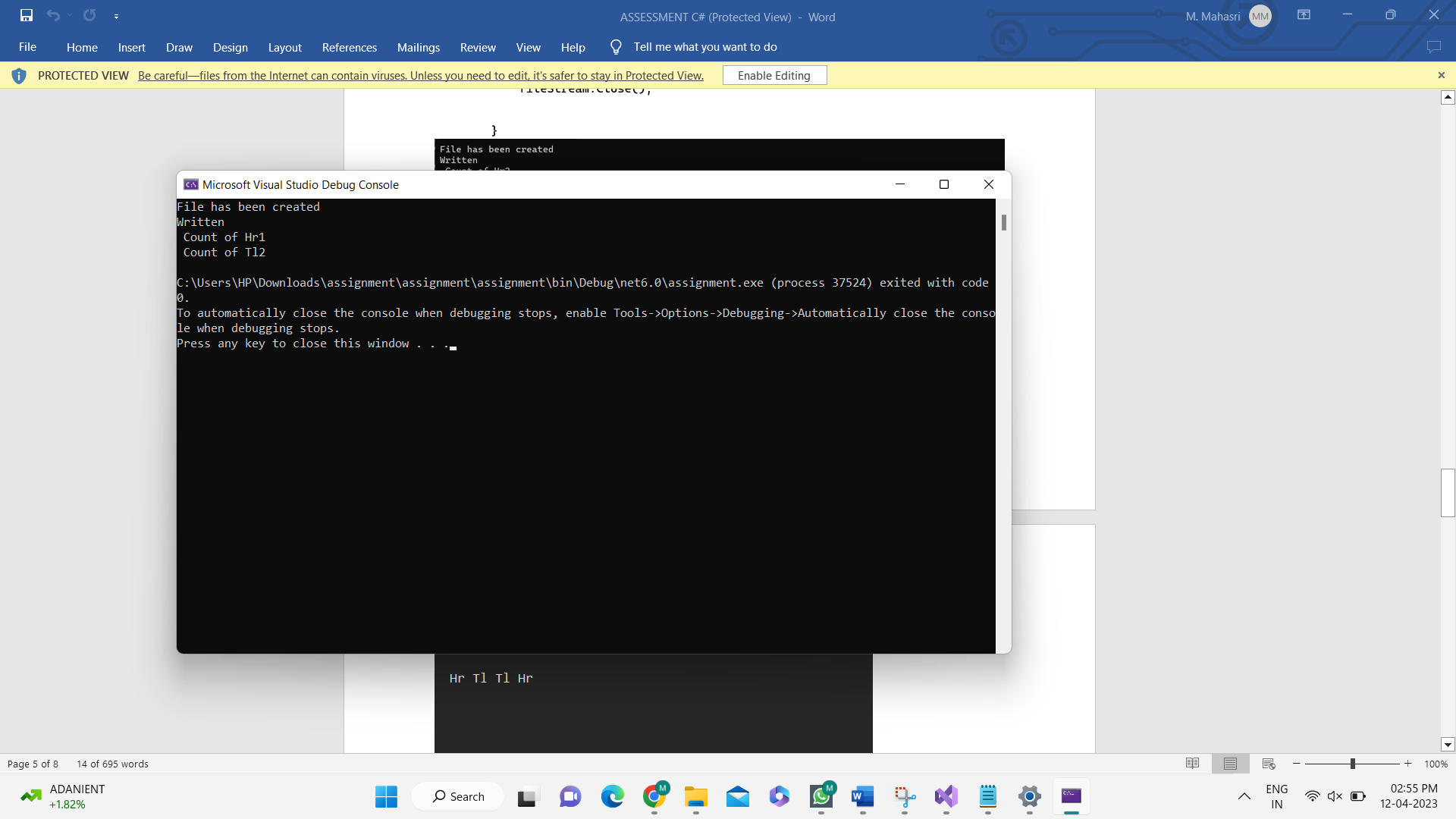
**b. Create three files. (Employee.txt, HR.txt, TL.txt) and do the following operations.**

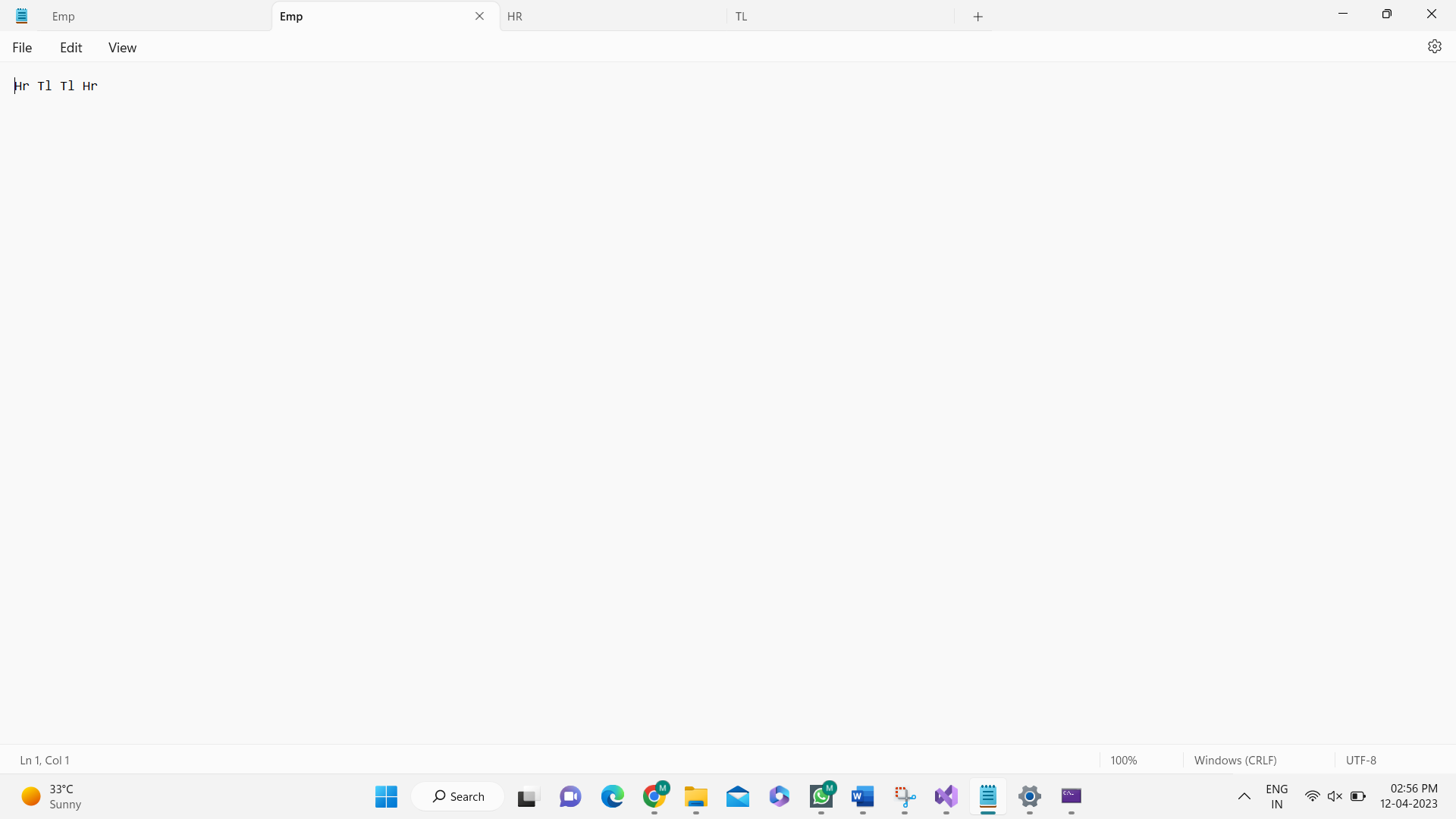
**i. Read the Employee file and count the HR and TL**

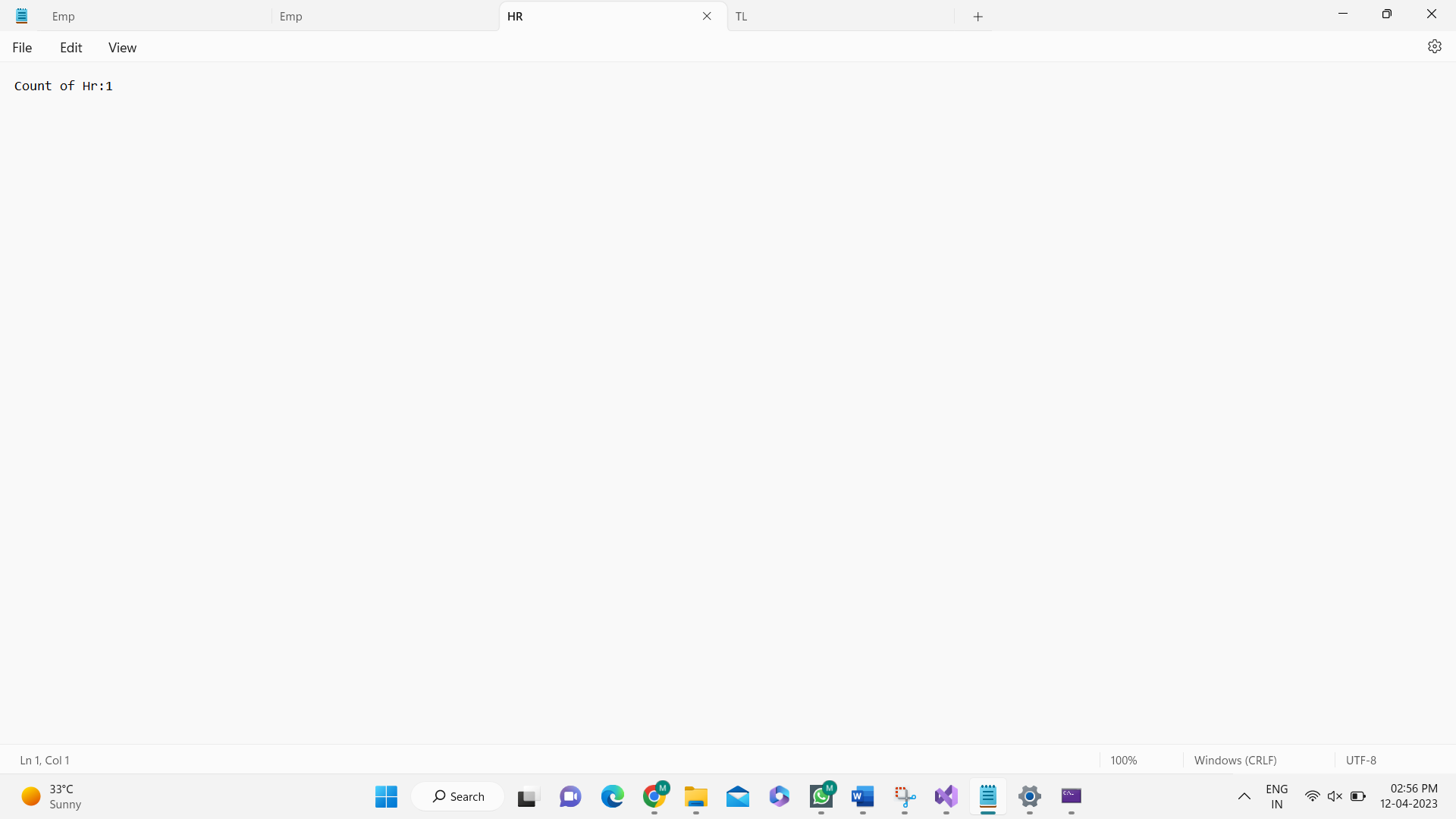
**ii. Write the HR file with count of HR**

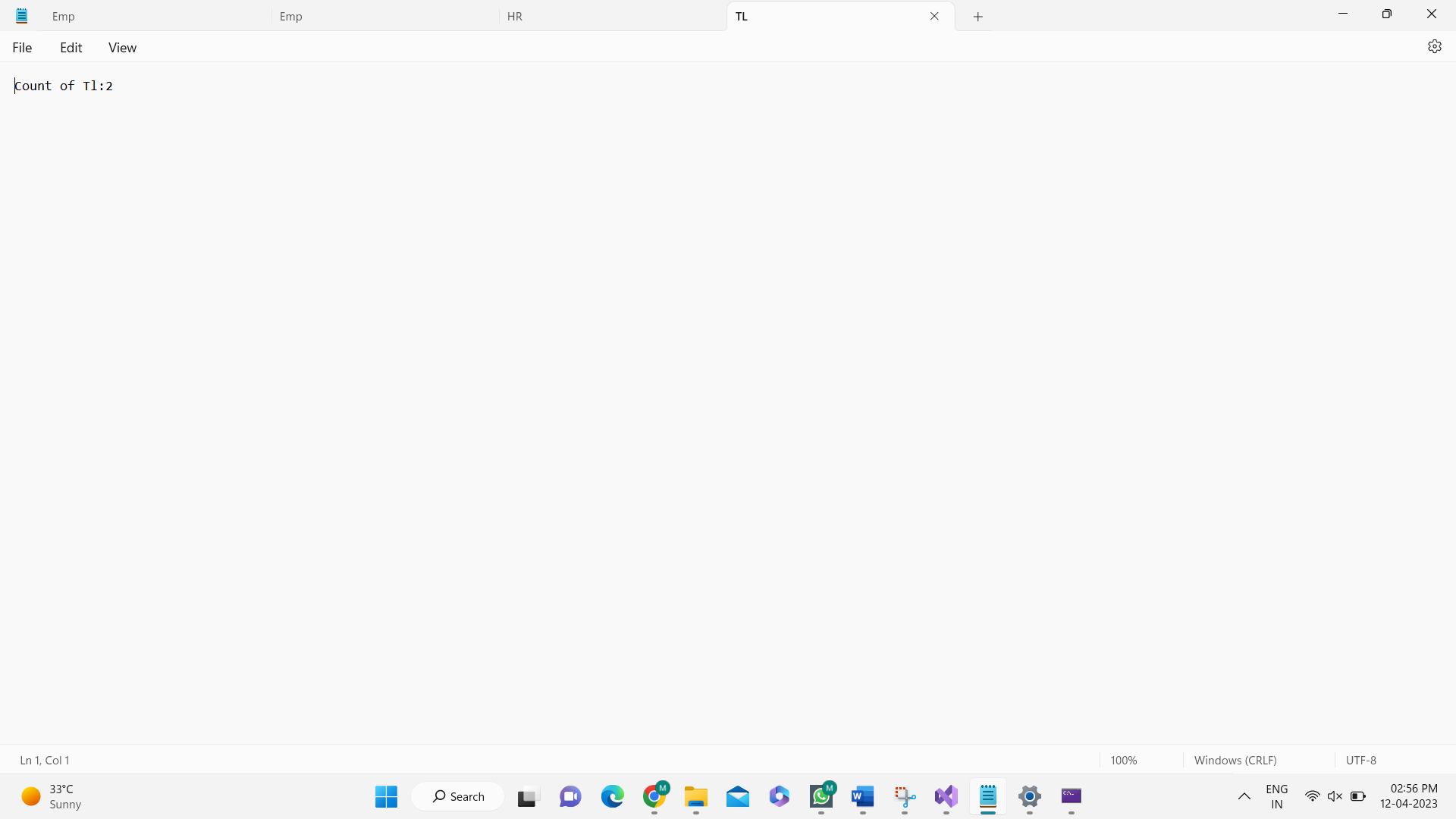
**iii. Write the TL file with count if TL**







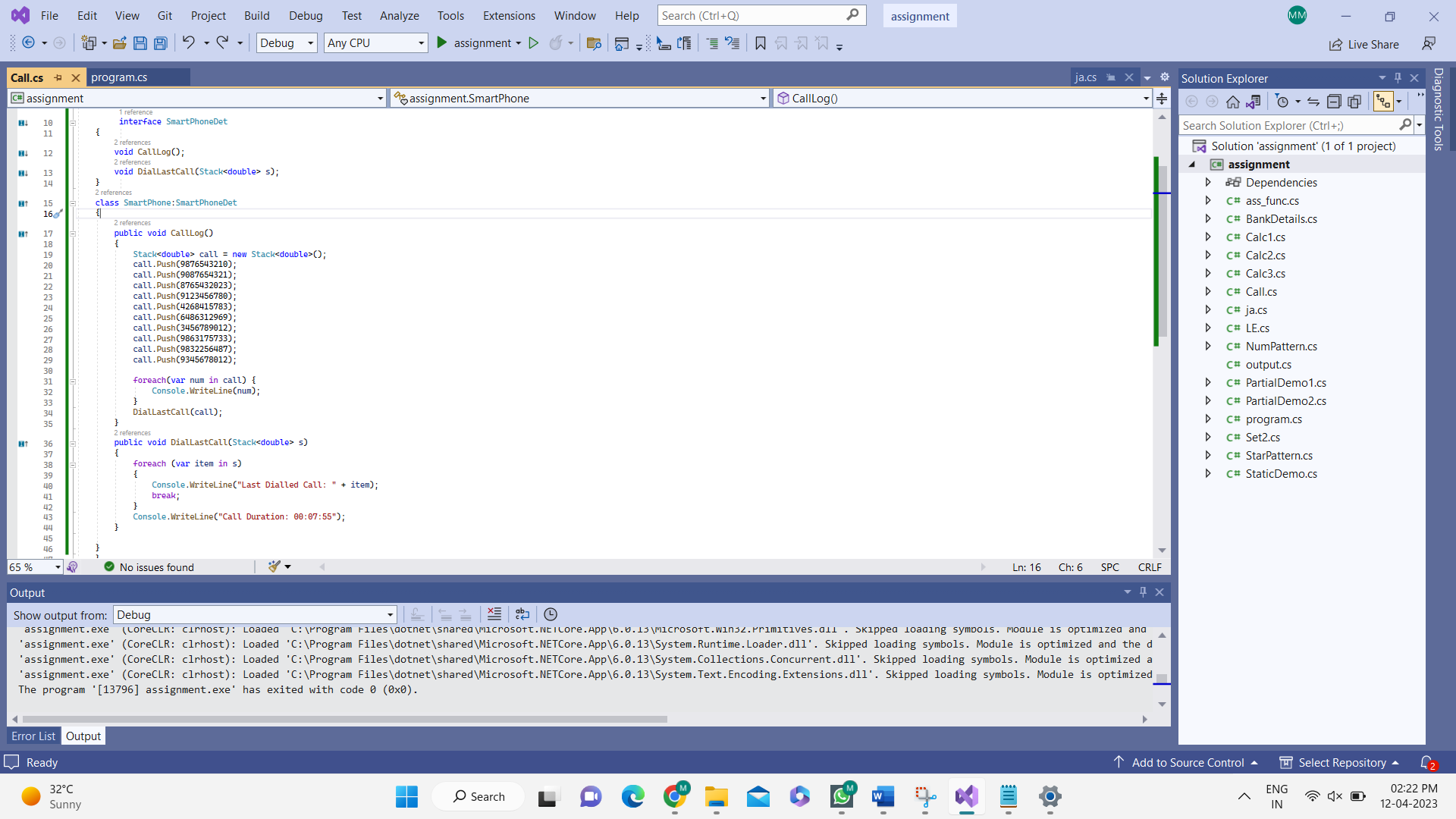


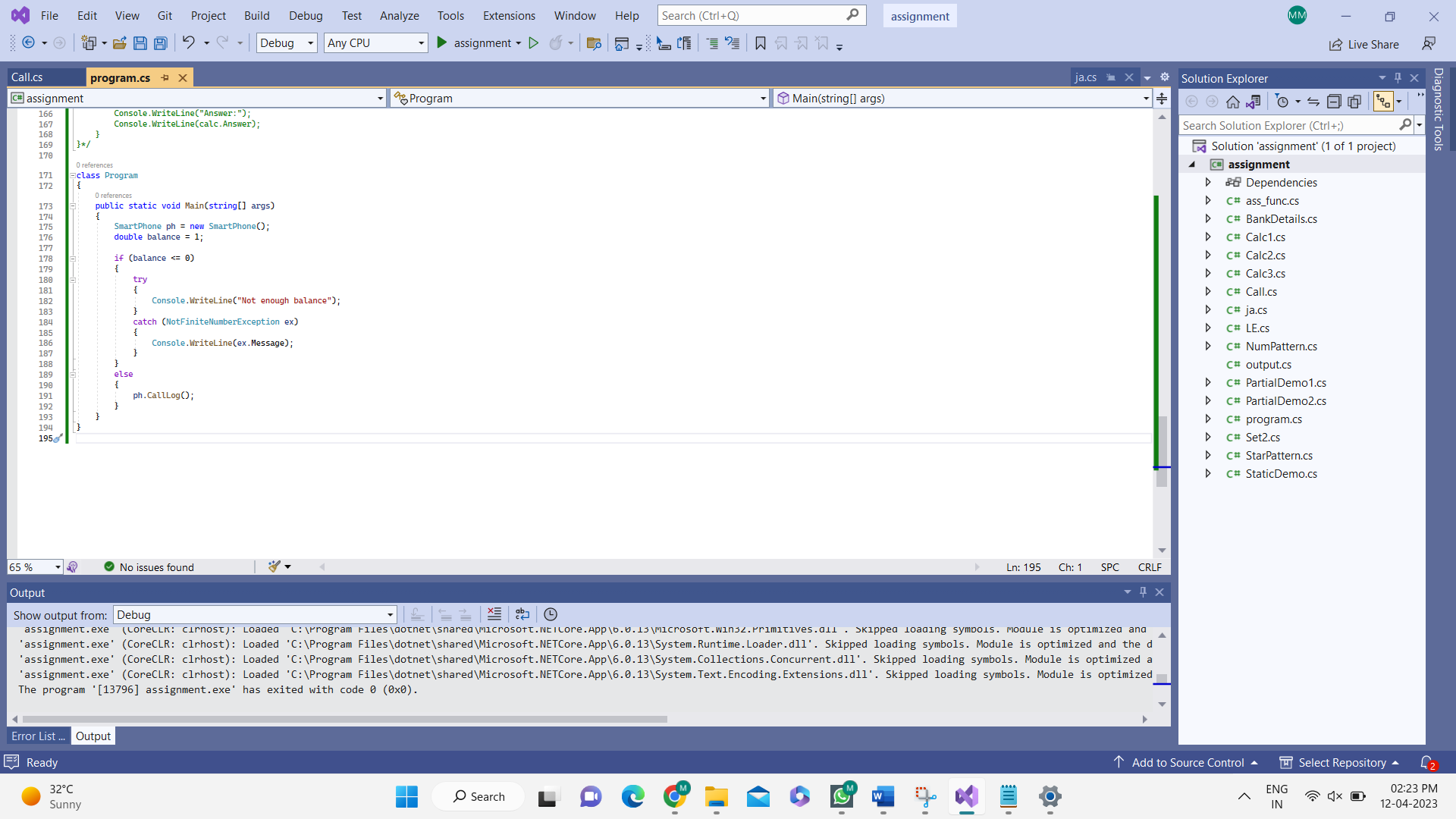


**3. Create a Smartphone interface and implement the methods (CallLog() to display last 10 dialed**

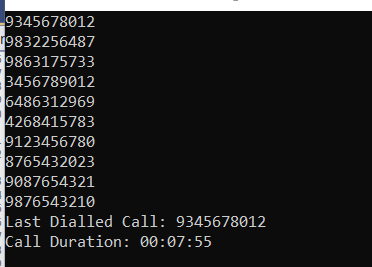
**numbers, DialLastCall() to initiate the call with the last dialled number and display the call**

**duration in minutes after the call ends. Call duration is your choice) in the derived class. Define**

**Custom Exception to handle insufficient balance when dialling the call.**



**OUTPUT:**

****