

2100090166

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LAB 4.1

The screenshot displays the Visual Studio IDE with a C# project named 'LAB - 4'. The code is organized into two files: 'Program.cs' and 'SalesPerson.cs'.

Program.cs:

```
using System;

// Base class Employee
namespace LAB_4
{
    class Employee
    {
        // Fields
        private string name;
        private decimal salary;
        private decimal bonus;

        // Properties
        public string Name { get { return name; } }
        public decimal Salary { get { return salary; } }

        // Constructor
        public Employee(string name, decimal salary)
        {
            this.name = name;
            this.salary = salary;
        }

        // Virtual method to set bonus
        public virtual void SetBonus(decimal bonus)
        {
            this.bonus = bonus;
        }

        // Method to calculate total payment
    }
}
```

SalesPerson.cs:

```
// Method to calculate total payment
public decimal ToPay()
{
    return salary + bonus;
}

// SalesPerson class inheriting from Employee
class SalesPerson : Employee
{
    // Fields
    private int percent;

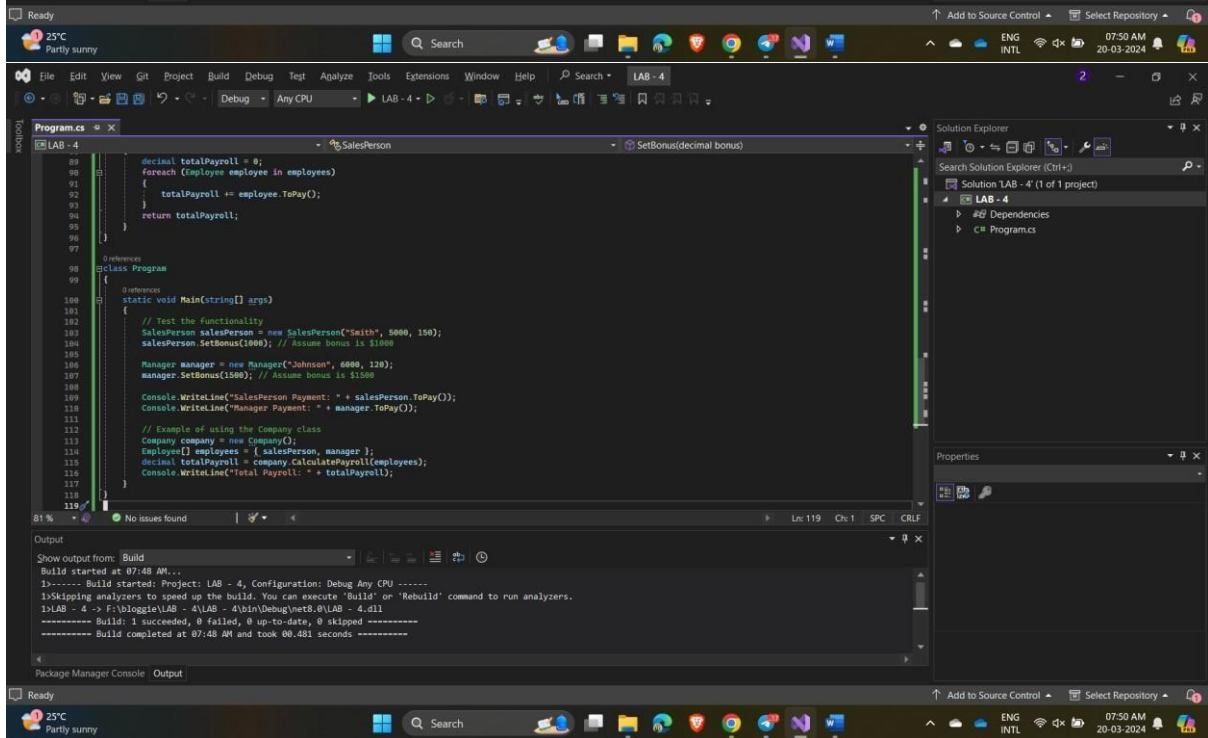
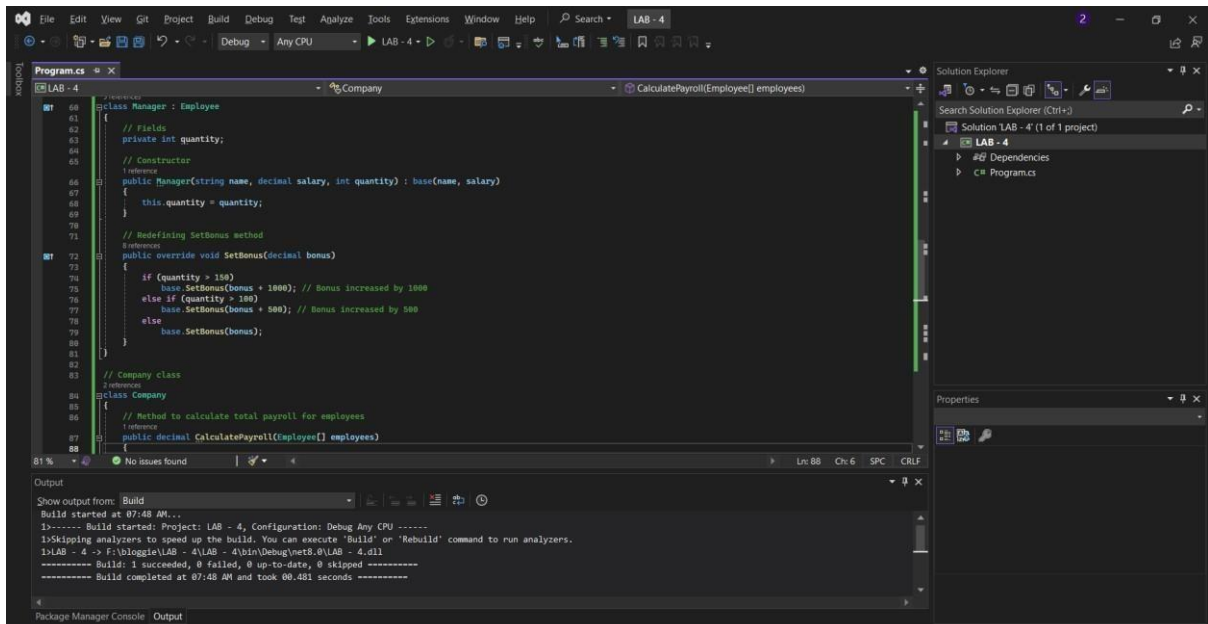
    // Constructor
    public SalesPerson(string name, decimal salary, int percent) : base(name, salary)
    {
        this.percent = percent;
    }

    // Redefining SetBonus method
    public override void SetBonus(decimal bonus)
    {
        if (percent > 200)
            base.SetBonus(bonus * 3); // Triple bonus
        else if (percent > 100)
            base.SetBonus(bonus * 2); // Double bonus
        else
            base.SetBonus(bonus);
    }
}
```

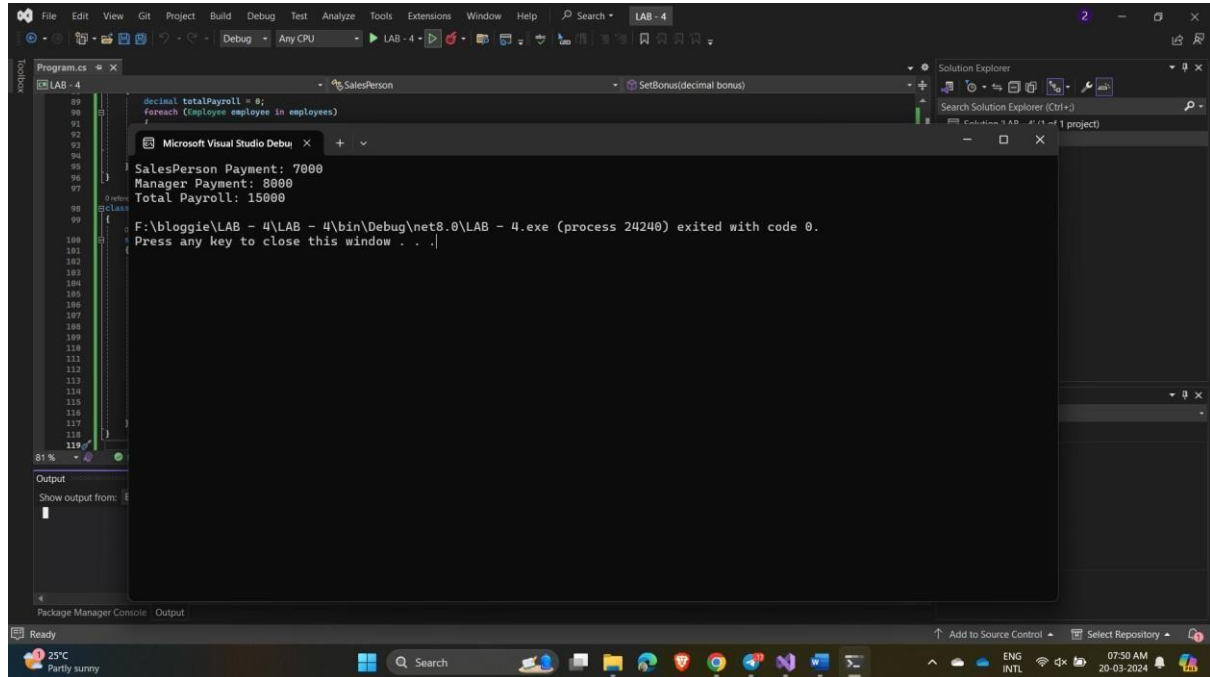
The **Output** window shows the build process:

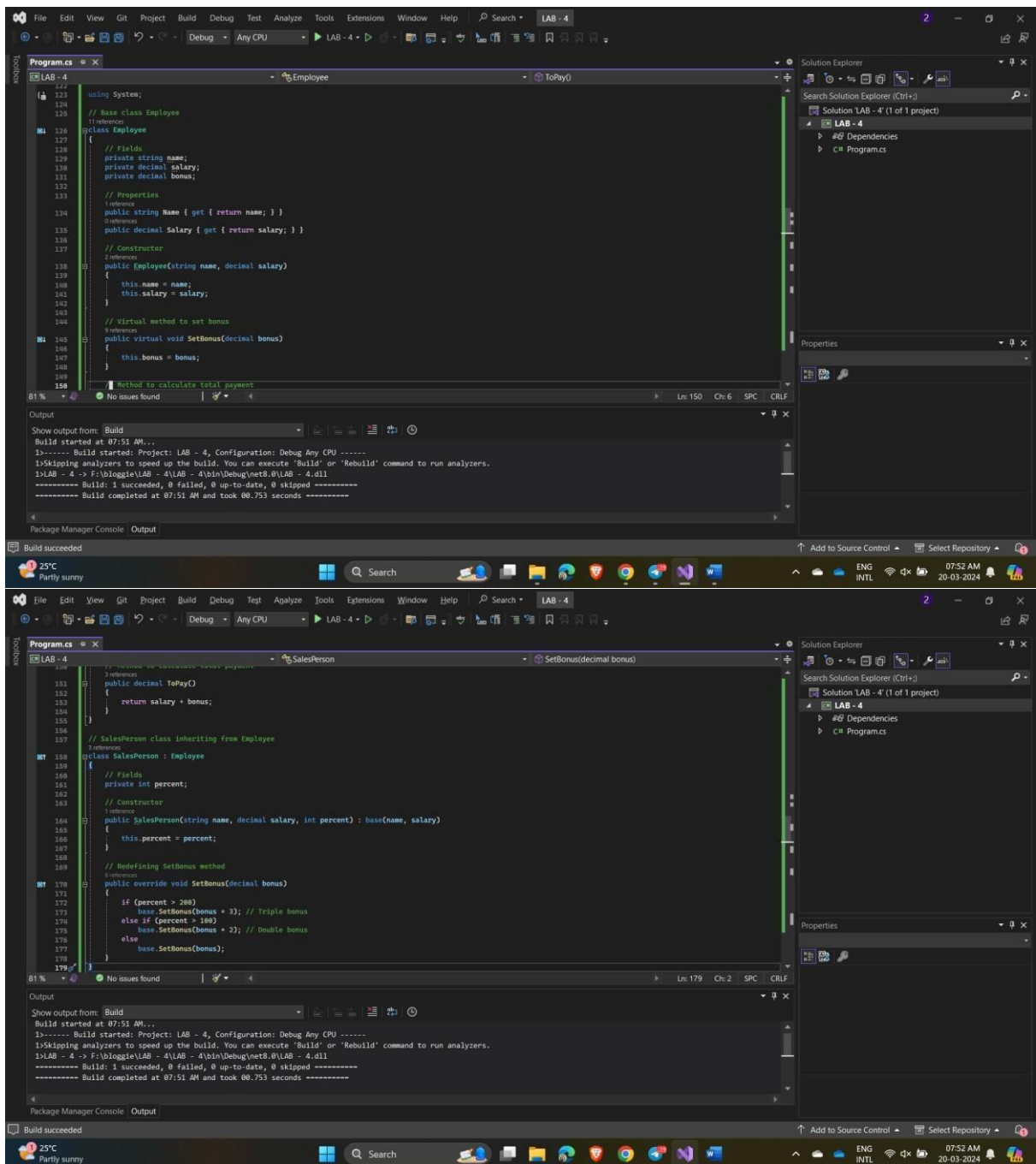
```
Build started at 07:48 AM...
1>----- Build started: Project: LAB - 4, Configuration: Debug Any CPU -----
1>Skipping analyzers to speed up the build. You can execute 'Build' or 'Rebuild' command to run analyzers.
1>LAB - 4 -> F:\biogigie\LAB - 4\LAB - 4\bin\Debug\net8.0\LAB - 4.dll
----- Build: 1 succeeded, 0 failed, 0 up-to-date, 0 skipped -----
----- Build completed at 07:48 AM and took 00.481 seconds -----
```

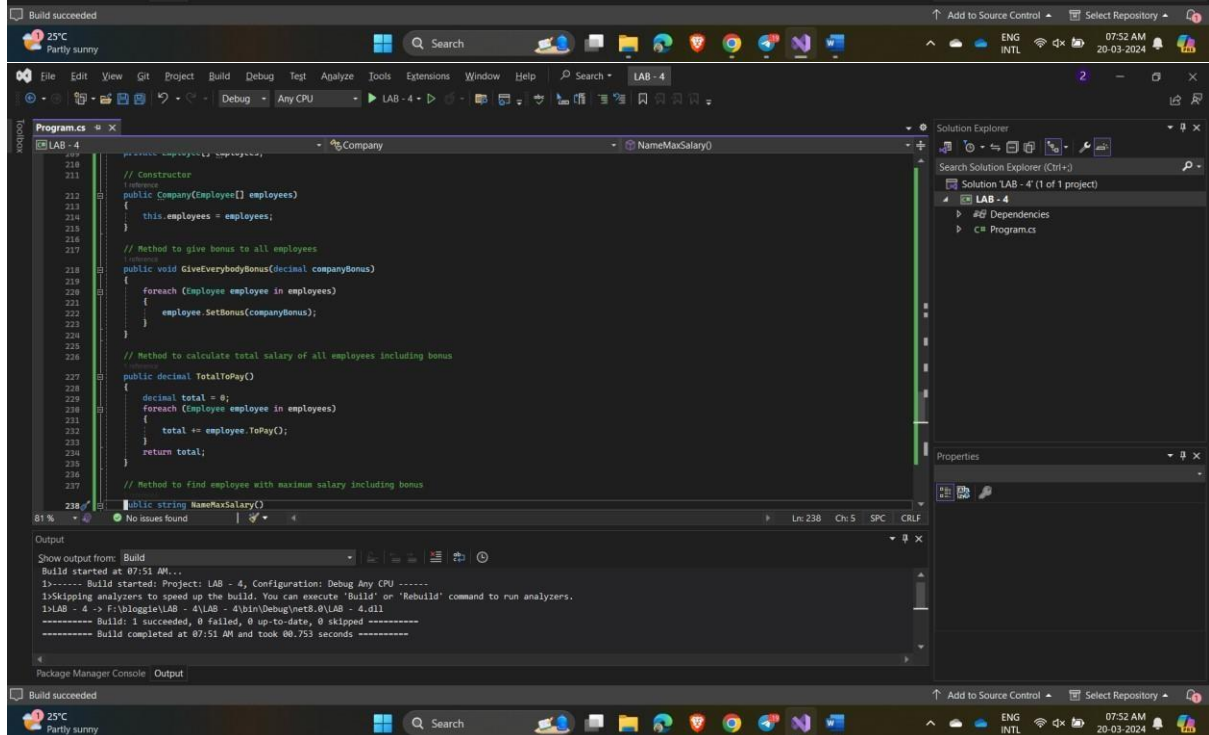
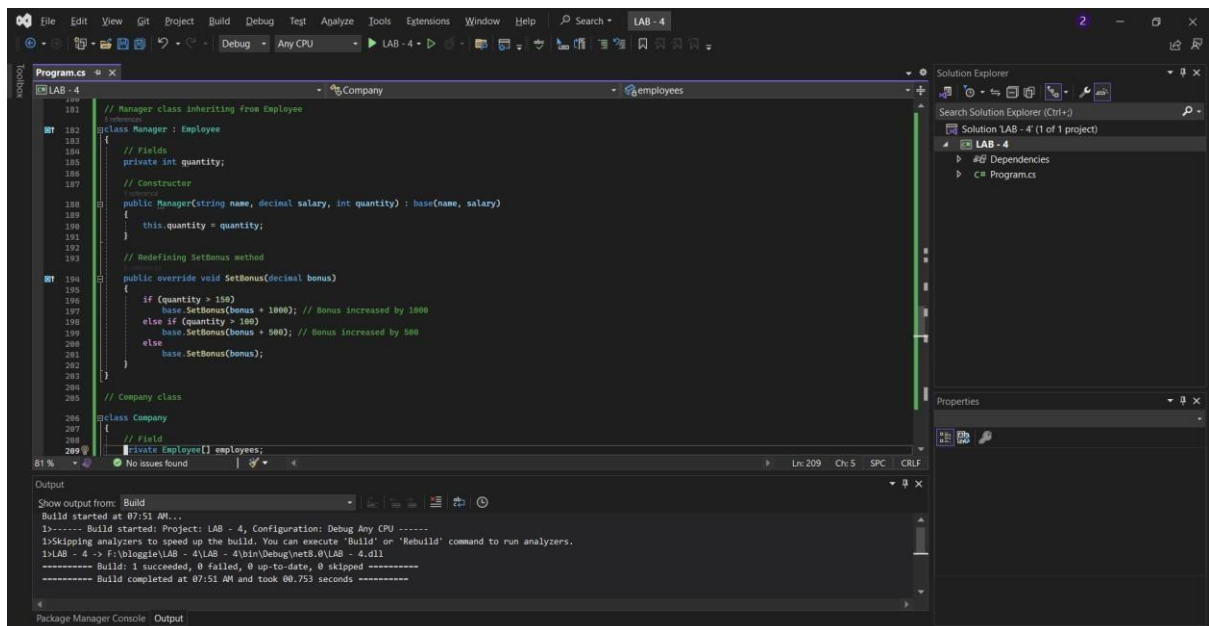
The **Solution Explorer** on the right shows the project structure: 'LAB - 4' (1 of 1 project) containing 'Dependencies' and 'C# Program.cs'.

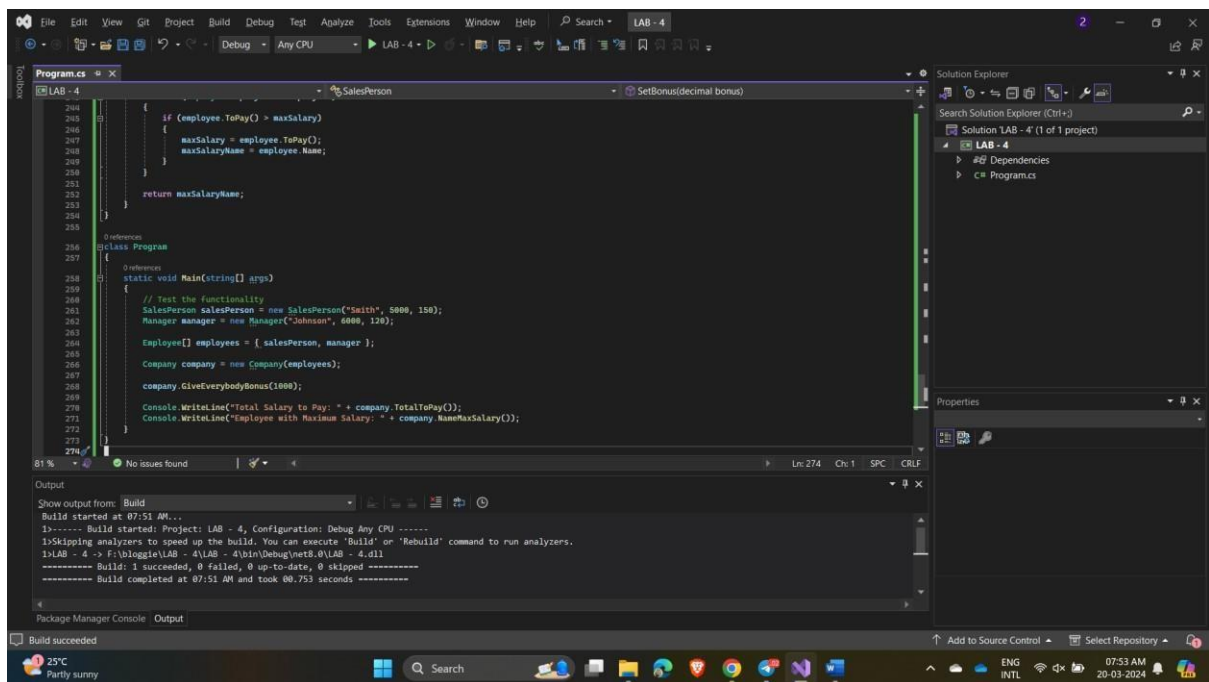
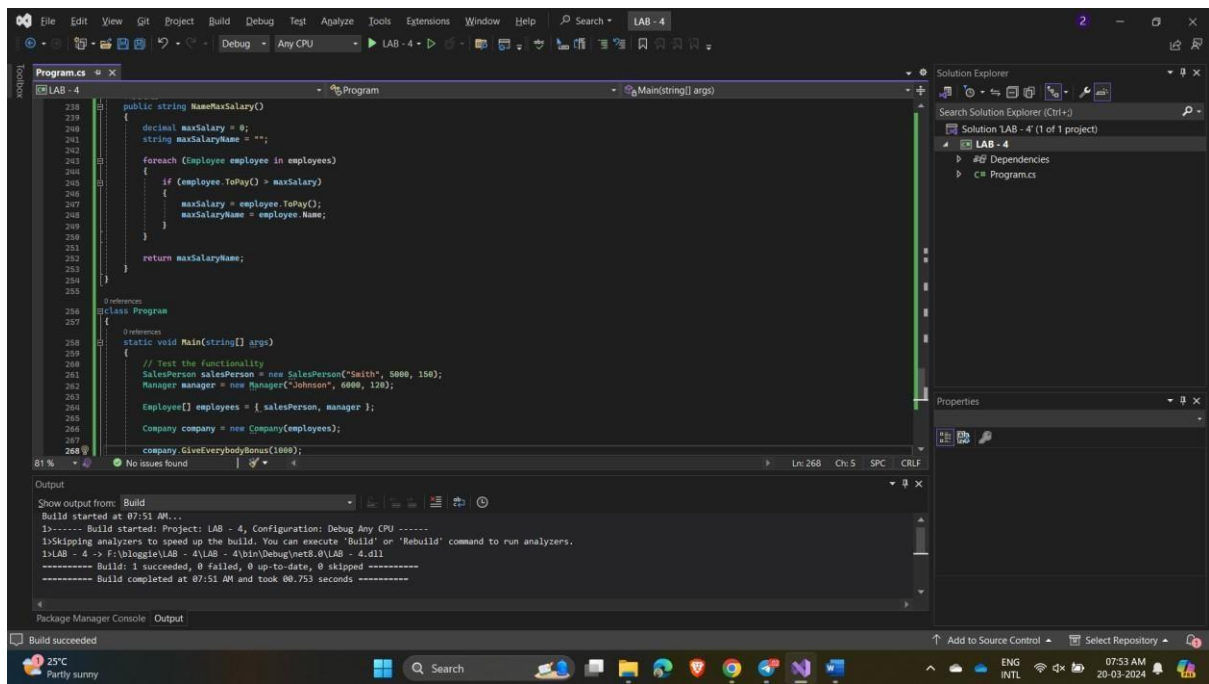


OUTPUT :









OUTPUT :

