## **Lab 3: Mutation Testing**

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**Subject:** Software Testing Methodologies (SENG8041)

## **Screenshot for Program.cs in MutantDemo:**

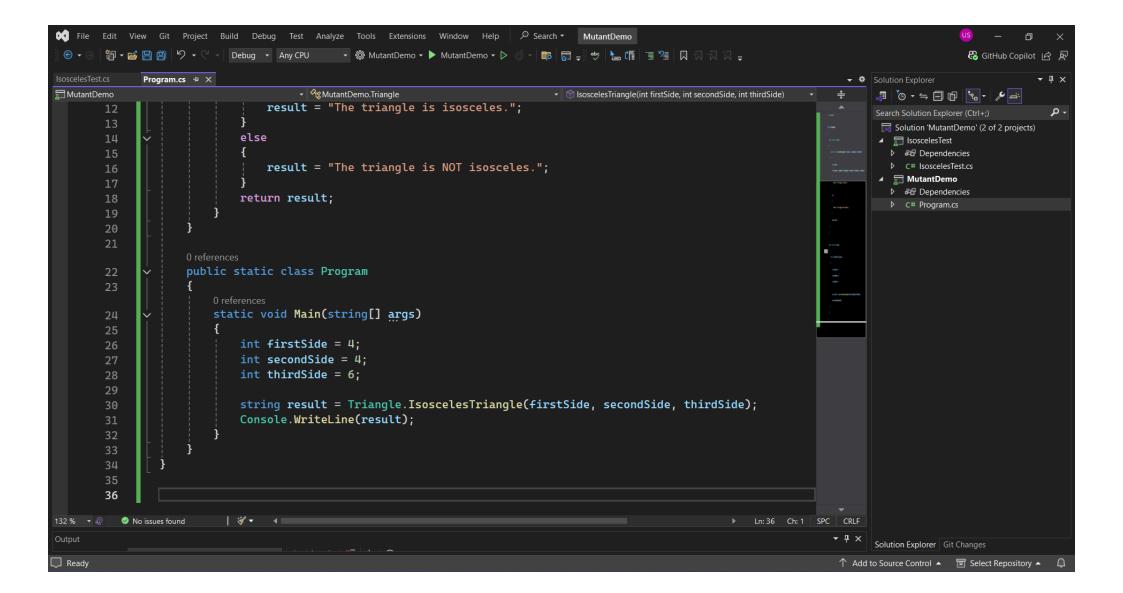
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               Program.cs + X

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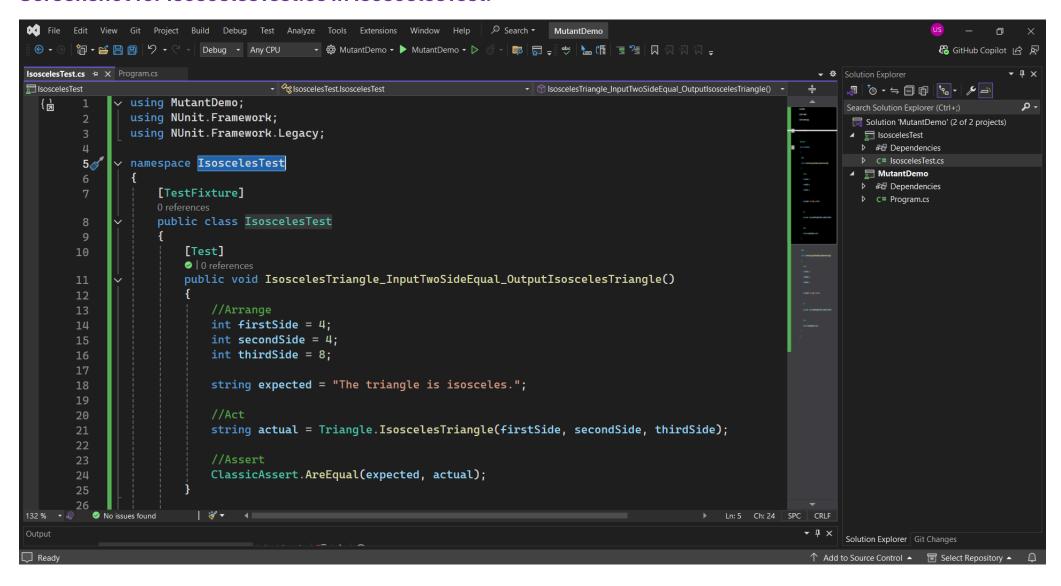
☐ MutantDemo

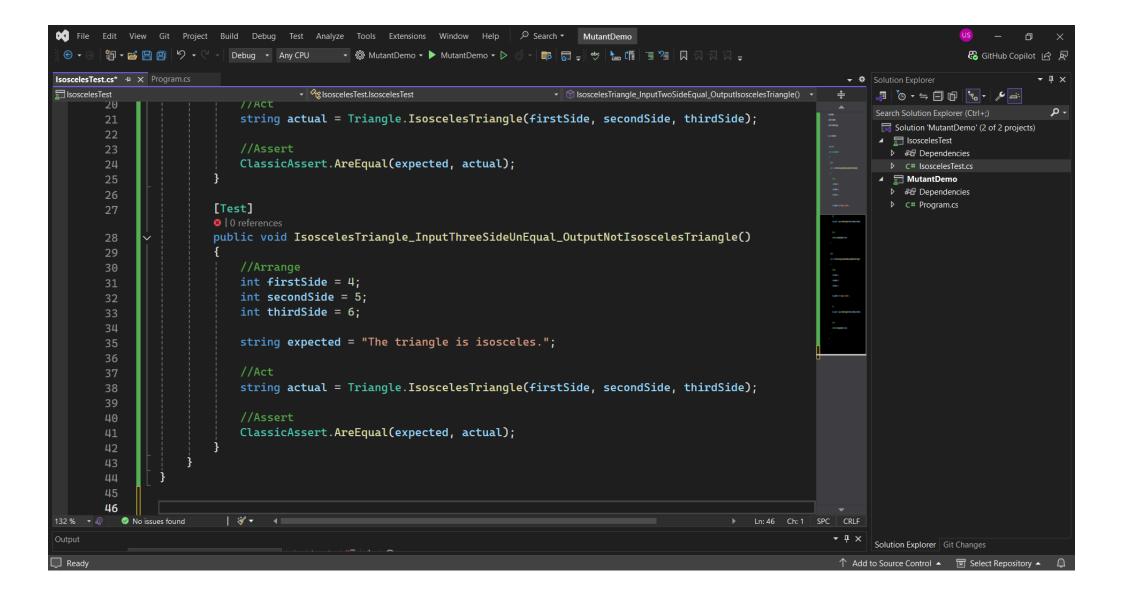
→ MutantDemo.Triangle

                                                                                      ▼ SoscelesTriangle(int firstSide, int secondSide, int thirdSide)
                                                                                                                                              { ja
                  using MutantDemo;
                                                                                                                                              Search Solution Explorer (Ctrl+;)
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                                                                                                                                              Solution 'MutantDemo' (2 of 2 projects)
               namespace MutantDemo
                                                                                                                                              ▶ ₽ Dependencies
                                                                                                                                                C# IsoscelesTest.cs
                                                                                                                                              public static class Triangle
                                                                                                                                                ▶ ₽ Dependencies
                                                                                                                                               C# Program.cs
                           3 references | 80 1/2 passing
                           public static string IsoscelesTriangle(int firstSide, int secondSide, int thirdSide)
                                string result;
                                if ((firstSide == secondSide) || (secondSide == thirdSide) || (thirdSide == firstSide)
                                    result = "The triangle is isosceles.";
         12
                                else
                                    result = "The triangle is NOT isosceles.";
                                return result;
                       public static class Program
                           static void Main(string[] args)
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## Screenshot for IsoscelesTest.cs in IsoscelesTest:





## **Screenshot for Pass and Fail Test:**

