**IPT102 - INTEGRATIVE PROGRAMMING AND TECHNOLOGIES 2**

**MIDTERM LABORATORY EXAM**

**NAME:**

**PERCENTAGE**

**SCORE**

**STUDENT NO:**

**YEAR/SECTION:**

**DATE:**

*Rubric:*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Criteria | Excellent  (25 pts.) | Good  (20 pts) | Fair  (15 pts.) | Poor  (0 pt.) |
| **Program Execution** | Program executes correctly with no syntax or runtime errors. | Program executes with minor(easily fixed errors). | Program executes with minor(not easily fixed errors. | Program does not executes. |
| **Correct Output** | Program displays correct output with no errors. | Output has minor errors. | Output has multiple errors. | Output is incorrect. |
| **Code Construction** | Program is statistically well designed. | Few inappropriate design choices(i.e. poor variable names and algorithm) | Several inappropriate design choices(i.e. poor variable names and algorithm) | Program is poorly written |
| **Page Layout and Design** | Forms, text and images laid out on the page in a well balanced manner. | The page is well layout with one minor deficiency. | The page is well layout with one major or three or four minor deficiency. | There is no document style defined for the page. |

**MACHINE PROBLEM**

1. Write a program that gives the user the choice of computing any of the following: the area of a circle, a square, a rectangle, or a triangle.

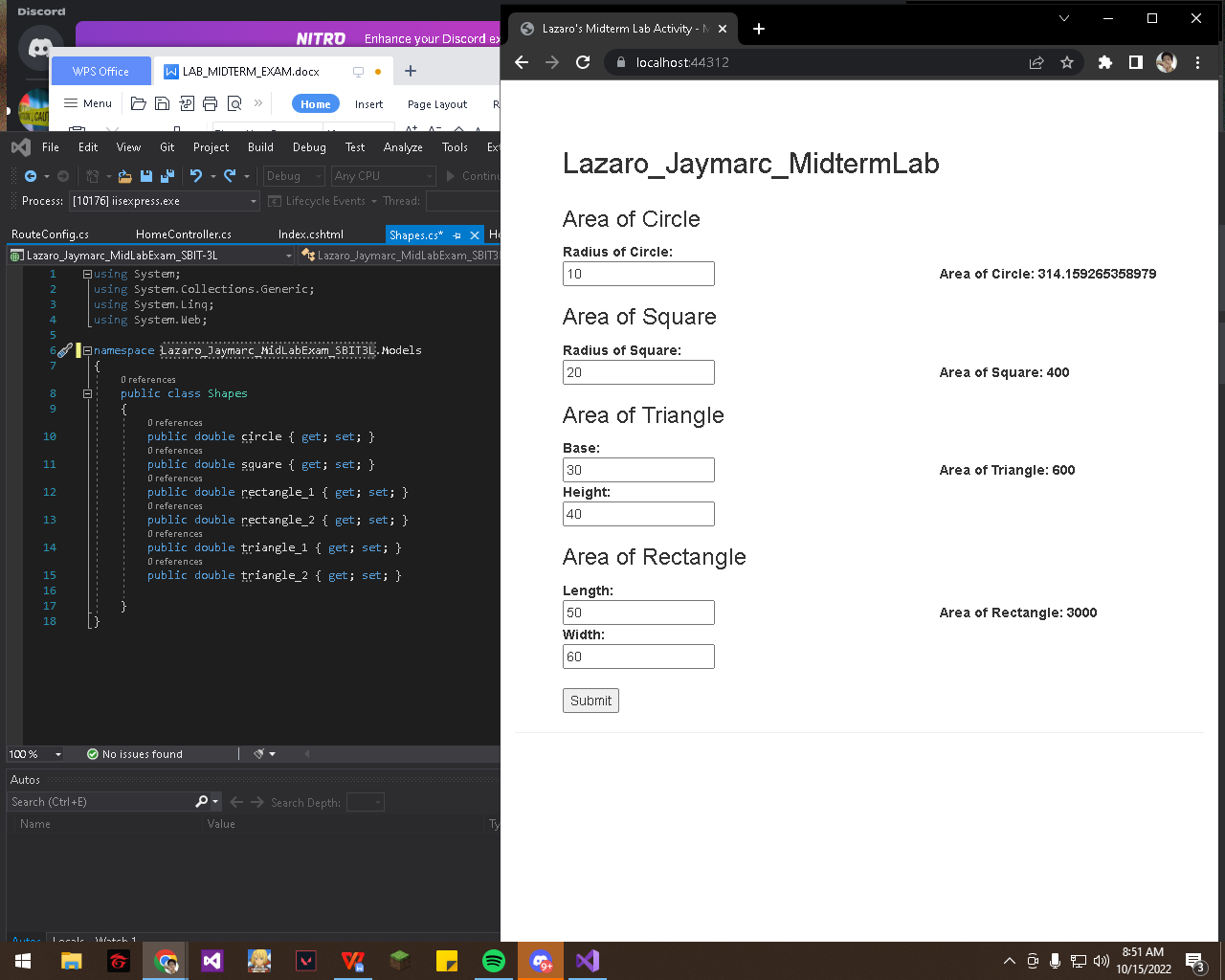
The following are the formula:

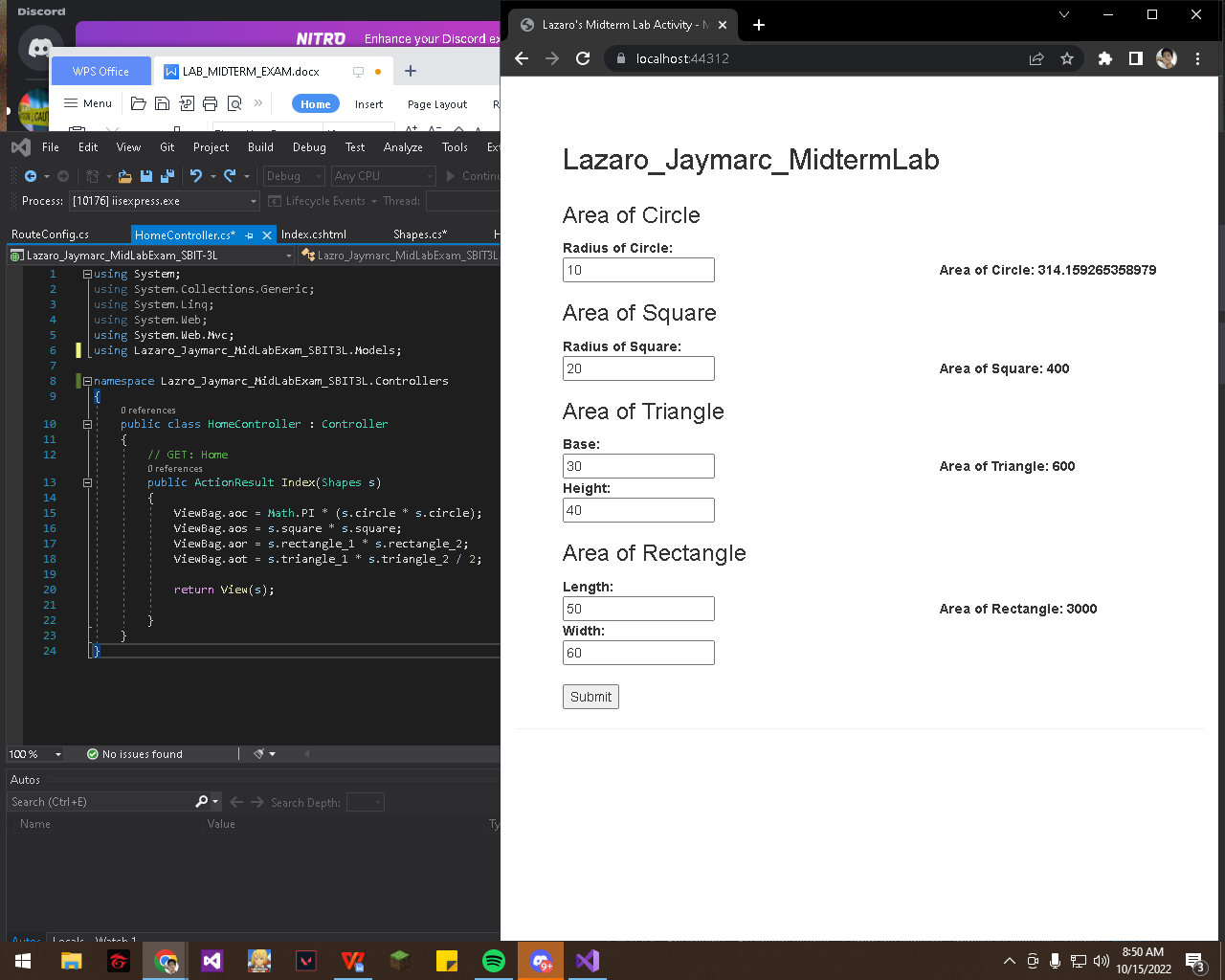
Area of circle = Pi \* radius2

Area of square = Side2

Area of rectangle = Length \* Width

Area of triangle = 1/2 \* base \* height





Index.cshtml

Code:

@{

ViewBag.Title = "Midterm Laboratory Exam";

}

@model Lazaro\_Jaymarc\_MidLabExam\_SBIT3L.Models.Shapes

@using (Html.BeginForm())

{

<center>

<table>

<tr>

<td>

<h2>

Lazaro\_Jaymarc\_MidtermLab

</h2>

</td>

</tr>

<tr>

<td>

<h3>

Area of Circle

</h3>

</td>

</tr>

<tr>

<td>

<b>

Radius of Circle:

</b>

</td>

</tr>

<tr>

<td>

@Html.TextBoxFor(s => s.circle)

</td>

<td>

<b>

Area of Circle: @ViewBag.aoc <br />

</b>

</td>

</tr>

<tr>

<td>

<h3>

Area of Square

</h3>

</td>

</tr>

<tr>

<td>

<b>

Radius of Square:

</b>

</td>

</tr>

<tr>

<td>

@Html.TextBoxFor(s => s.square)

</td>

<td>

<b>

Area of Square: @ViewBag.aos <br />

</b>

</td>

</tr>

<tr>

<td>

<h3>

Area of Triangle

</h3>

</td>

</tr>

<tr>

<td>

<b>

Base:

</b>

</td>

</tr>

<tr>

<td>

@Html.TextBoxFor(s => s.triangle\_1)

</td>

<td>

<b>

Area of Triangle: @ViewBag.aot <br />

</b>

</td>

</tr>

<tr>

<td>

<b>

Height:

</b>

</td>

</tr>

<tr>

<td>

@Html.TextBoxFor(s => s.triangle\_2)

</td>

</tr>

<tr>

<td>

<h3>

Area of Rectangle

</h3>

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</tr>

<tr>

<td>

<b>

Length:

</b>

</td>

</tr>

<tr>

<td>

@Html.TextBoxFor(s => s.rectangle\_1)

</td>

<td>

<b>

Area of Rectangle: @ViewBag.aor <br />

</b>

</td>

</tr>

<tr>

<td>

<b>

Width:

</b>

</td>

</tr>

<tr>

<td>

@Html.TextBoxFor(s => s.rectangle\_2)

</td>

</tr>

<tr>

<td colspan="2">

<br />

<input type="submit" value="Submit" />

</td>

</tr>

</table>

</center>

}