Exercise: Area Calculator

Start a new console application project for each part of this exercise. We're going to calculate some areas of shapes.

Part 1: Rectangle

In this exercise, we want you to prompt the user for a length and width of a rectangle. Please use the `int` type for length and width and its appropriate Parse() method.

When completed, try the following things:

1. Find out what happens if you type in a non-number or nothing instead of providing a whole number?

2. Find out what happens if you type in a decimal value instead of a whole number.

The program execution should look like the following:

```
Enter Length: 5
Enter Width: 3

A rectangle with dimensions 5x3 has an area of 15.
```

Remember to make the output look as close to this as possible!

Part 2: Circle

In this exercise, prompt the user for a double type radius value then calculate the area of a circle (pi * r^2). Use a second variable, area, to store the calculation instead of outputting it directly into the WriteLine() method.

For the value of pi, I would like you to explore the Math type. Use the dot notation on the Math type in the code editor to examine its data and behaviors and find the appropriate one to do this using the documentation.

Also use the Math type's appropriate method to perform a power of 2 calculation.

You can also type Math into the code editor and hit F1 on it to load the help.

The program execution should look like the following:

```
Enter a radius: 5
A circle with radius 5 has an area of 78.53981633974483.
```