Number Handling Lab

Lab 1: Integers

MinValue Constant

Replace the entire contents of the **Program.cs** file with the following code.

```
Console.WriteLine(int.MinValue);
```

Try It Out

Run the application and view the output.

MaxValue Constant

Replace the entire contents of the **Program.cs** file with the following code.

```
Console.WriteLine(int.MaxValue);
```

Try It Out

Run the application and view the output.

Equals Method

Replace the entire contents of the **Program.cs** file with the following code.

```
int id = 1;

Console.WriteLine(int.Equals(id, 1));

// Same as
Console.WriteLine(id == 1);
```

Try It Out

Run the application and view the output.

Parse Method

Replace the entire contents of the **Program.cs** file with the following code.

```
Console.WriteLine(int.Parse("10"));

// The following will fail
// Console.WriteLine(int.Parse("10a"));
```

Try It Out

Run the application and view the output.

TryParse Method

Replace the entire contents of the **Program.cs** file with the following code.

```
Console.WriteLine(int.TryParse("10", out int tmp1));
Console.WriteLine(int.TryParse("10a", out int tmp2));

Console.WriteLine(tmp1);
Console.WriteLine(tmp2);
```

Try It Out

Run the application and view the output.

The following is the same as the above, but eliminates the unnecessary variables

```
Console.WriteLine(int.TryParse("10", out _));
Console.WriteLine(int.TryParse("10a", out _));
```

Try It Out

Run the application and view the output.

Lab 2: Decimal

Has all the same constants/methods as the **int** data type

MinValue/MaxValue Constants

Replace the entire contents of the **Program.cs** file with the following code.

```
Console.WriteLine(decimal.MinValue);
Console.WriteLine(decimal.MaxValue);
```

Try It Out

Run the application and view the output.

Zero/One/MinusOne Constants

Replace the entire contents of the **Program.cs** file with the following code.

```
var zero = decimal.Zero;
var one = decimal.One;
var minOne = decimal.MinusOne;

Console.WriteLine(zero);
Console.WriteLine(one);
Console.WriteLine(minOne);
```

Try It Out

Run the application and view the output.

Negate Method

Replace the entire contents of the **Program.cs** file with the following code.

```
var result = decimal.Negate(10);

Console.WriteLine(result);
```

Try It Out

Run the application and view the output.

Ceiling Method

Replace the entire contents of the **Program.cs** file with the following code.

```
var result = decimal.Ceiling(10.3M);

Console.WriteLine(result);
```

Try It Out

Run the application and view the output.

Floor Method

Replace the entire contents of the **Program.cs** file with the following code.

```
var result = decimal.Floor(10.9M);

Console.WriteLine(result);
```

Try It Out

Run the application and view the output.

Round Method

Replace the entire contents of the **Program.cs** file with the following code.

```
var result = decimal.Round(10.9M);

Console.WriteLine(result);
```

Try It Out

Run the application and view the output.

Truncate Method

Replace the entire contents of the **Program.cs** file with the following code.

```
var result = decimal.Truncate(10.5M);

Console.WriteLine(result);
```

Try It Out

Run the application and view the output.