Looping Constructs Lab

Lab 1: While Loop

Open the **Program.cs** file and replace the entire contents of the file with the following code.

```
int index = 1;

while (index < 10) {
  Console.WriteLine(index);

  index++;
}
```

Try It Out

Run the application and view the output.

Lab 2: Do While Loop

Open the **Program.cs** file and replace the entire contents of the file with the following code.

```
int index = 1;

do {
  Console.WriteLine(index);

  index++;
} while (index < 10);
```

Try It Out

Run the application and view the output.

Lab 3: For…Next Loop #1

Open the **Program.cs** file and replace the entire contents of the file with the following code.

```
for (int index = 1; index <= 10; index++) {
  Console.WriteLine(index);
}

Console.WriteLine(index);  // 'index' is not available
```

Try It Out

Run the application and view the output.

Lab 4: For…Next Loop #2

Open the **Program.cs** file and replace the entire contents of the file with the following code. This sample creates index outside of the loop and increments by 2.

```
int index = 0;

for (; index <= 20; index += 2) {
  Console.WriteLine(index);
}

Console.WriteLine(index);  // 'index' is available
```

Try It Out

Run the application and view the output.

Lab 5: For…Next Loop #3

Open the **Program.cs** file and replace the entire contents of the file with the following code. This sample decrements by 2.

```
for (int index = 20; index >= 0; index -= 2) {
  Console.WriteLine(index);
}
```

Try It Out

Run the application and view the output.

Lab 6: For…Each Loop

Open the **Program.cs** file and replace the entire contents of the file with the following code.

```
string name = "10 Speed Bicycle";

foreach (char chr in name) {
  Console.WriteLine(chr);
}
```

Try It Out

Run the application and view the output.