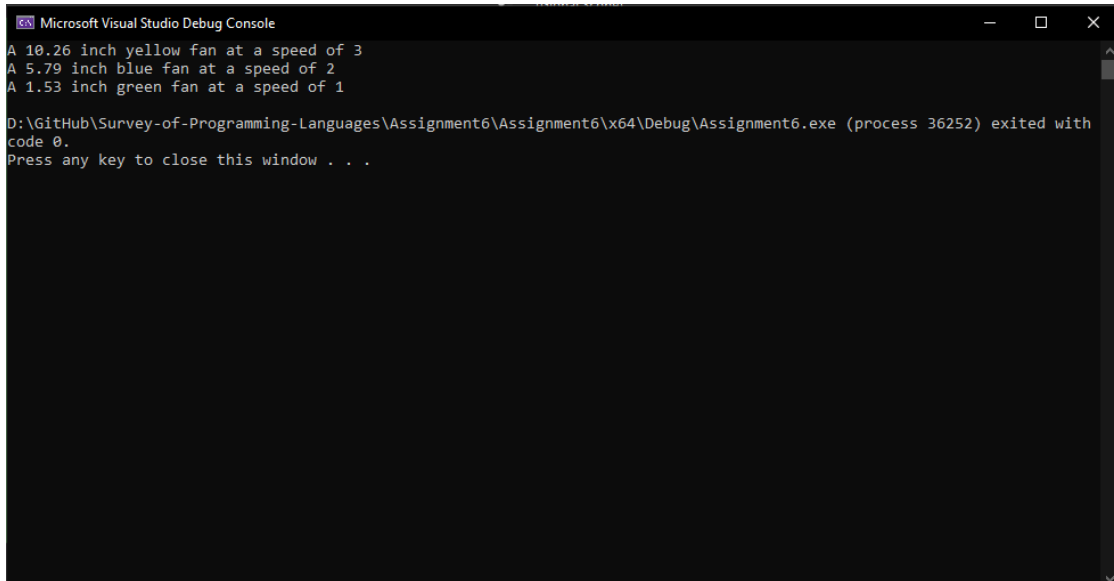


## Assignment 6 - Dominick Girard - CSCI 250

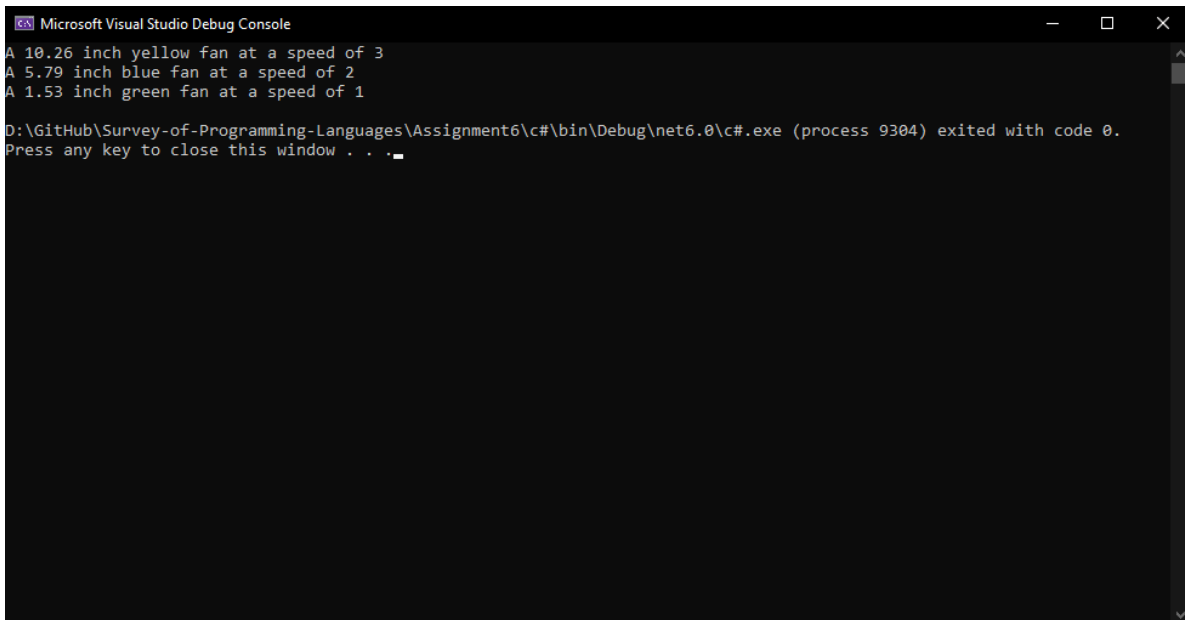
### C++ ADTs



```
Microsoft Visual Studio Debug Console
A 10.26 inch yellow fan at a speed of 3
A 5.79 inch blue fan at a speed of 2
A 1.53 inch green fan at a speed of 1

D:\GitHub\Survey-of-Programming-Languages\Assignment6\Assignment6\x64\Debug\Assignment6.exe (process 36252) exited with code 0.
Press any key to close this window . . .
```

### C# ADTs

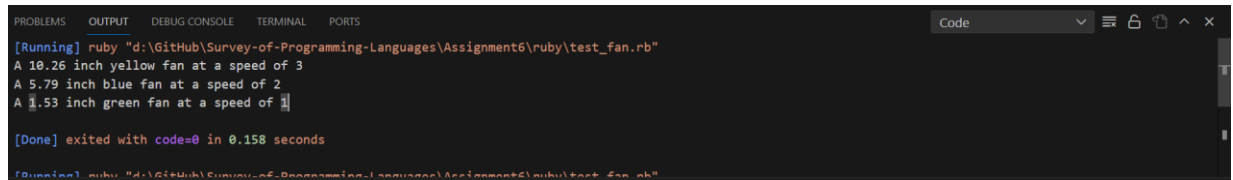


```
Microsoft Visual Studio Debug Console
A 10.26 inch yellow fan at a speed of 3
A 5.79 inch blue fan at a speed of 2
A 1.53 inch green fan at a speed of 1

D:\GitHub\Survey-of-Programming-Languages\Assignment6\c#\bin\Debug\net6.0\c#.exe (process 9304) exited with code 0.
Press any key to close this window . . .
```

- **Simplicity and Readability:** Properties provide a cleaner and more concise way to define accessors and mutators. They reduce boilerplate code and make the class definition more readable.
- **Encapsulation:** Properties encapsulate a field while exposing a public way of getting and setting its value. This preserves the principles of encapsulation.

# Ruby ADTs



```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS Code
[Running] ruby "d:\GitHub\Survey-of-Programming-Languages\Assignment6\ruby\test_fan.rb"
A 10.26 inch yellow fan at a speed of 3
A 5.79 inch blue fan at a speed of 2
A 1.53 inch green fan at a speed of 1

[Done] exited with code=0 in 0.158 seconds
[Running] ruby "d:\GitHub\Survey-of-Programming-Languages\Assignment6\ruby\test_fan.rb"
```

**Ruby's `attr_*` Methods:** These are extremely concise and readable, reducing boilerplate significantly. They are ideal for simple cases where complex logic in getters/setters is not needed.

**Specific Get/Set Methods:** While these methods offer the most control and are language-agnostic, they require more boilerplate code and can make the class less readable, especially for simple data handling.