Connor Perron BCS426 Prof. Aydin Spring 2021

```
public void NewStudentArrived(object sender, StudentArrived e) =>
      Console.WriteLine($"{_name}: student {e.Student} is new");
public class StudentArrived : EventArgs
   public StudentArrived(Student student) => Student = student;
   public Student Student { get; }
public class Registrar
   private Student[] _studentList;
   public event EventHandler<StudentArrived> NewStudentInfo;
   private static int numberOfStudents = 0;
   public Registrar(Student[] studentList)
        _studentList = studentList;
    public void NewStudent(Student student)
       student.Register();
       _studentList[numberOfStudents] = student;
       Console.WriteLine($"Registrar, new student {student}");
       NewStudentInfo?.Invoke(this, new StudentArrived(student));
       numberOfStudents++;
```

```
class Program
   static void Main(string[] args)
       Student[] studentList = new Student[100];
       var registrar = new Registrar(studentList);
       Random rnd = new Random();
       var dob = new DateTime(2001, 7, 11);
       Student s1 = new Student("Connor Perron", dob, "CPIS", Status.JUNIOR);
       dob = new DateTime(2002, 10, 10);
       Student s2 = new Student("Student Person", dob, "Liberal Arts", Status.FRESHMAN);
       dob = new DateTime(2001, 11, 13);
        Student s3 = new Student("Name Nameson",dob, "Dentistry", Status.SOPHMORE);
        Console.WriteLine(s1);
        registrar.NewStudent(s1);
        Thread.Sleep(rnd.Next(100, 3000));
        Console.WriteLine(s2);
        registrar.NewStudent(s2);
        Thread.Sleep(rnd.Next(100, 3000));
        Console.WriteLine(s2);
        registrar.NewStudent(s3);
```

```
Microsoft Visual Studio Debug Console

Student Name: Connor Perron

Date of Birth: 7/11/2001 12:00:00 AM

Major: CPIS

Status: JUNIOR

Registered: False

Registered: False

Registered: False

Registered: False

Registered: True

Student Name: Student Person

Date of Birth: 10/10/2002 12:00:00 AM

Major: Liberal Arts

Status: FRESHMAN

Registered: False

Registered: False

Registered: False

Registered: False

Registered: True

Major: Liberal Arts

Status: FRESHMAN

Registered: False

Registered: False

Registered: True

Major: Liberal Arts

Status: FRESHMAN

Registered: True

Registered: True

Registered: True

Major: Liberal Arts

Status: FRESHMAN

Registered: True

Registered: True

Registered: True
```

C:\Users\Connor\source\repos\Lab7\Lab7\bin\Debug\netcoreapp3.1\Lab7.exe (process 10496) exited with code 0. Press any key to close this window . . .