

Trevor Bright  
CECS 220  
Assignment 04  
6/28/17

## **Problem 1**

**Description:** Write a program that counts the occurrences of numbers entered between 0 and 50.

**Logic:** I used an array that adds 1 to the array place equal to the number that was entered.

```
<terminated> problem_01 (2) [Java Application] C:\Users\Trevor\Desktop\eclipse\jre\bin\javaw.exe
Enter number between 0 and 50. To quit, enter number outside limits.
1
Enter number between 0 and 50. To quit, enter number outside limits.
1
Enter number between 0 and 50. To quit, enter number outside limits.
1
Enter number between 0 and 50. To quit, enter number outside limits.
2
Enter number between 0 and 50. To quit, enter number outside limits.
2
Enter number between 0 and 50. To quit, enter number outside limits.
4
Enter number between 0 and 50. To quit, enter number outside limits.
4
Enter number between 0 and 50. To quit, enter number outside limits.
99
|
1: 3 time(s)
2: 2 time(s)
4: 2 time(s)
```

## **Problem 2**

**Description:** Draw a car using polygons and polylines.

**Logic:** I made an integer array for the x and y coordinates so no matter what the starting point is, the car will look the same. This also helps with problem 4 because I knew I would have to make it move.



### **Problem 3**

**Description:** Make a database of hospital employees with executable jobs corresponding to the job title.

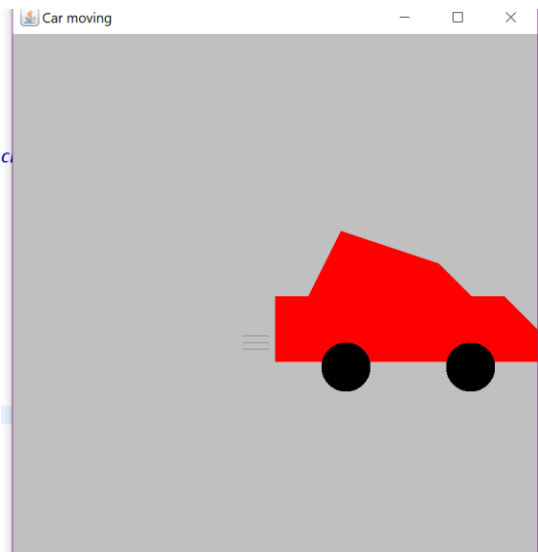
**Logic:** After I made the hospital employee class, I extended it to all the job titles to make it easier to code.

```
<terminated> Driver [Java Application] C:\Users\Trevor\Desktop\eclipse\jre\bin\javaw.exe (Jun 28, 2017, 5:07:43 PM)
[Doctor] John Smith: The patient was given the shots.
[Doctor] John Smith: The patient was prescribed recommended medication
[Nurse] Jane Doe: The patient's blood pressure was taken and is 120/80.
[Nurse] Jane Doe: The patient's temperature was taken and is 98.6
[Administrator] Rob Stone: $956,987 was counted today.
[Administrator] Rob Stone: The records were updated
[Surgeon] Michael Brown: The patient had a surgery.
[Receptionist] Chris Jackson: The receptionist scheduled patient's appointments.
[Janitor] Harold Bowman: The bathrooms were cleaned.
[Janitor] Harold Bowman: The floors were mopped.
```

### **Problem 4**

**Description:** Make a car but this time, make it move from left to right.

**Logic:** I just used the car from problem 2 and added a for loop that increases the x component causing it to look like its moving.



### **Conclusion**

In conclusion, this assignment helped me learn more about java panels and extending classes.