

Trevor Bright

CECS 220

Assignment 05

7/11/17

Problem 1

Summary: Create a speaker interface and extend it with a senator, attorney, and preacher class each containing different speech messages.

Logic: I simply created the interface and extended it to the 3 speaker classes.

```
<terminated> Driver (1) [Java Application] C:\Users\Trevor\Desktop\eclipse\jre\bin\javaw.exe (Jul 11, 2017, 6:49:13 PM)
I am the Senator
[Senator]: Hello Earth.

I am the Attorney
[Attorney]: Hello America.

I am the Preacher
[Preacher]: Hello Kentucky.
```

Problem 2

Summary: Modify the Sorting class to organize numbers in descending order.

Logic: I changed the less than sign to equal than sign in the if statement that checks if one number is greater than or less than another.

```
<terminated> Driver (2) [Java Application] C:\Users\Trevor\Desktop\eclipse\jre\bi
6 6 3 2 1
6 6 3 2 1
```

Problem 3

Summary: Create a program that throws an exception if the string entered is longer than 20 characters.

Logic: I used a throw to call the exception if the string is longer than 20 characters.

```
driver [Java Application] C:\Users\Trevor\Desktop\eclipse\jre\
Enter string (Enter DONE to quit):
less than 20
Enter string (Enter DONE to quit):
more than 20 characters
|
```

Problem 4

Summary: Create a program similar to the one in problem 3 but this time, output an error instead of terminating the program if the string is more than 20 characters long.

Logic: Instead of using a throw, I used a try statement to test if the string was too long.

```
<terminated> driver (1) [Java Application] C:\Users\Trevor\Desktop\eclipse\jre\bin\javaw.exe
Enter string (DONE to quit):
less than 20
Enter string (DONE to quit):
more than 20 characters
Error: String is 20 characters or longer. Please try again.
Enter string (DONE to quit):
done
|
```

Conclusion

This assignment helped me learn more about interfaces, throws, and try/catch statements.