

5. (6 points) Write code to create an object from the `Scanner` class called `in` that is attached to the keyboard.

6. (10 points) Suppose a user types the following and then enter: “Exam 1”. Write code that will use the `Scanner` object created in the answer to the previous problem to store “Exam” in a string called `first` and “1” in an `int` called `second`.

7. (10 points) Using the `JOptionPane` class write code to ask the user to enter an integer value. Store the integer value in a variable called `value`.

8. (16 points) For each of the following, indicate what will be displayed.

(a)

```
System.out.println(1.5 + 2 / 4);
```

(b)

```
System.out.println((1.5 + 2) / 4);
```

(c)

```
System.out.println((5<2 || 4>2) && (6==6));
```

(d)

```
double x = 2;  
System.out.println(x);
```

(e)

```
for(int i=0; i<2; i++) {  
    System.out.println(i);  
}
```

(f)

```
int i = 0;  
System.out.println(1 + i++);
```

(g)

```
int i = 0;  
System.out.println(++i + 1);
```

(h)

```
int i = 0;  
System.out.println("The number: " + 1 + i++);
```

9. (5 points) Given

```
String text = "Why do fools fall in love? To reproduce and outnumber us.";
```

Determine the result of `text.substring(7, 10)`;

10. (10 points) Complete the program below that must use a for loop to display every integer between 5 and 5500 in order.

```
public static void main(String [] args) {
```

11. (20 points) Complete the following program. The program must ask the user to enter a number of words. The program will continue to read words until the word “stop” is entered. The program must then display the total number of words with more than four characters entered. Sample output:

```
Enter as many words as you would like. Terminated by entering "stop":
The farms on the left side of the road were smellier. stop
```

```
You entered 2 words that were longer than four characters.
```

```
import java.util.Scanner
import javax.swing.JOptionPane;
```

```
public class Exam {
```

```
    public static void main(String[] args) {
        System.out.println("Enter as many words as you would like. Terminated"
            + " by entering \"stop\":");
```

```
    }
}
```



Additional space — indentify which problem your work is associated with.