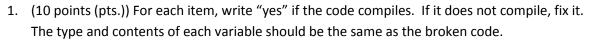
SE1011: Exam 1 Name:

This is a closed-book, closed-computer, etc. exam. You may use one 8.5"x11" sheet of notes, which you will turn in with your exam. Review all questions before you get started. Use the page at the end of the exam for extra work. The exam is printed double-sided. Show all work.



```
a. long x = 5;int y = x;
```

```
b. float f = 5.3;double d = f;
```

```
c. String str = "A";
  char c = str;
```

d. double
$$d = 9.6$$
;

2. (10 pts.) Suppose that c has a value of false. Does it matter what values a and b have, or will this expression always have the same value? Support your answer.

3. (5 pts.) Write what will be displayed if the following line is run:

System.out.println(15 % 2 - 2 % 15);

4.	(5 pts.) What does the compiler do?
5.	(5 pts.) How do the while and do-while loop differ?
6.	(10 pts.) Consider the following program:
Sc	static void main(String[] args) { canner in = new Scanner(System.in); vstem.out.println("Please_enter_a_word.");
Sy	rstem.out.println("You_entered_a_"+ word.length() + "_letter_word")
} What v	vill be displayed if Exam is entered by the user?

7. (20 pts.) [Console input/output (IO)] Complete the following program that asks a user to enter a word. If the word has an odd number of letters, the program must display (to the console) "winner" fifty times. If the word has an even number of letters, the program must display (to the console) "loser" one time. Use System.out.println(...); to print to the console.

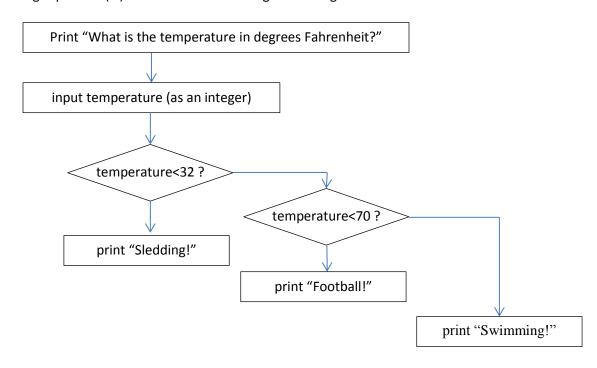
```
import java.util.Scanner;
public class Exam {
    public static void main(String[] ignored) {
        Scanner in = new Scanner(System.in);
}
```

}

You may use this space for flowchart, psueudocode, example input output, etc.

8.	(20 points) Write low-level pseudocode that asks a user to enter an integer and prints a list of all the numbers that divide evenly into the integer entered by the user. For example, if the user enters 12, the program should display 1 2 3 4 6 12. It can also display 12 6 4 3 2 1.	

9. (15 pts.) Translate the following flow chart to Java code. Use JOptionPane.showMessageDialog(...) for the output instead of printing to the console. Use Integer.parseInt(...) to convert from a String to an integer.



} }

You may use this space for extra work.	Indicate the problem you are working on.