1. (2 pts) What is printed by the following code and why?

```java
int number = 4;
if (number < 5)
    if (number < 3)
        System.out.println(“Number less than 3”);
else
    System.out.println(“Number greater than 5”);
```

2. (2 pts) Fill in the following. Assume the user will enter a number with a decimal point.

```java
String input = JOptionPane.showInputDialog(“What is your number?”);
double number = __________________________ (input.trim());
```

3. (2 pts) Suppose an application’s main method consists of just the following lines. Will the word Hello be printed when the program is interpreted? Explain.

```java
int counter = 1;
while (counter < 10)
    System.out.println(counter);
System.out.println(“Hello”);
```

4. (2 pts) The condition in a while loop must always be of type __________________________.

5. (2 pts) What is printed by the following?

```java
int counter = 53;
System.out.println(++counter);
```