Level 0 Exam

Name: _____

GitHub username: _____

Written: /70
Coding #1: /30
Coding #2: /30

1. What **type** of variable would you use to hold these things? (5)
You should use each of these once: `int, String, boolean, char, double.`

    1. Your favorite movie _____

    2. The number of people in the classroom _____

    3. The first letter of your name _____

    4. The price of a movie ticket _____

    5. Whether your cat has been fed today _____

2. Fill in the code that will print “just right!” if x is less than or equal to 10 **and** y is greater than 15. (4)

```
int x = 7;
int y = 26;
if(                                    )
{
     System.out.println("just right!");
}
```

3. Add curly braces (mustaches) where they are missing. (3)

```
public class MyClass

      public static void main(String[] args)

            String catName = “fluffy”;

            if(catName.equals(“Mr. Jingles”))

                  String message = "Get off the couch Mr. Jingles!";

                  System.out.println(message);
```

4. Create a variable that holds your name, then use it to print “My name is <your name> and I like coding” (3)

5. Using modulo, fill in the code that will print “even!” if x is an even number. (5)

```
int x = 16;
if(                                    )
{
      System.out.println("even!");
}
```

6. How would you get a random integer (int) between 50 and 100? (5)

7. Finish the code so that it prints “Tacos for dinner.” if `today` is Tuesday and “Pizza for dinner.” if `today` is Wednesday. (4)

```
String today = JOptionPane.showInputDialog(“what day is it?”);
          if(_____________________________________)
          {
               System.out.println("Tacos for dinner.");
          }
          else if (_____________________________________)
          {
               System.out.println("Pizza for dinner.");
          }
          else
          {
               System.out.println("Eat your vegetables!");
          }
```

8. Write the code that completes the following steps:
   a. Ask the user for their age (3)
   b. Add one to their age (this should take two lines of code) (5)
   c. Use a pop-up to tell the user “Happy Birthday! You are now ____ years old” where the blank contains their new age. (4)

9. Given the following Processing code: (4)

```
int y = 200;
void draw(){
     fill(255, 0, 0);
     ellipse(200, y, 50, 50);
     y+=5;
}
```

What is:

The x position of the ellipse: _____

The width of the ellipse: _____

The color of the ellipse: _____

The direction that the ellipse is moving: _____
(up, down, left, or right)

10. Fix the four mistakes in the following code: (4)

```
int x;
int y = x + 1;

if(x = y)
{
     x + 1;
} else if {
     x = y;
}
```

11. Fill in the following loop so that it counts **down** from 10 to 0. (4)

```
for( _____ ; _____ ; _____ ){
        System.out.println( _____ )
}
```

12. From the main method, call the echo method so that “echo” is printed 5 times. (3)

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



}
static void echo(String repeat, int numTimes){
      for(int i = 0; i < numTimes; i++)
      {
            System.out.print(repeat);
      }
}
```

13. Write code that will print the **even** numbers between 100 and 500 **using modulo**. (6)

14. What is the output of this code? (3)

```
int x = 44;

if (x > 40) {
      System.out.println("dogs");
}
else if (x > 42) {
      System.out.println("cats");
}
if (x == 40) {
      System.out.println("hamsters");
} else {
      System.out.println("pigeons");
}
System.out.println("spiders");
```

15. Write a method called `doubleNumber`. It should take an int as a parameter and print out that number multiplied by 2. (5)