1. (2 pts) Is there a syntax error in the following? Explain.

```java
String temp = "Hello";
for (int counter = 0; counter < temp.length(); counter++)
    switch (temp.charAt(counter) + "") {
        case 'A': System.out.println("Hello");
    }
```

2. (2 pts) Rewrite the following for loop as a while loop.

```java
for (int counter = 0; counter <= 5; counter++)
    System.out.println(counter);
```

3. (2 pts) What is printed by the following code?

```java
String temp = "Hello";
String output = "";
for (int counter = 0; counter < temp.length(); counter++) {
    int number = (int) temp.charAt(counter);
    number += (2 * number % 2);
    output += (char) number;
}
System.out.println(output);
```

4. (2 pts) How many times will the word Hello be printed by the following? Explain.

```java
for (int counter = 0; counter != 27; counter += 2)
    System.out.println(counter);
for (int counter = 0; counter < 5; counter++)
    System.out.println("Hello");
```

5. (2 pts) Rewrite the following with a switch statement. Assume number is an int.

```java
if (number == 2 || number == 31)
    System.out.println("Hello");
else if (number == 7 || number == 23)
    System.out.println("Prime");
else
    System.out.println("\n");
```