1. What gets printed by the following program?

1. What is the output of the following code fragment?

```java
int num1 = 5; int num2 = 4;

if (num1 >= num2)
    { 
        System.out.println("red");
        System.out.println("orange");
    }
if ((num1 + 5) >= num2)
    System.out.println("white");
else
    if ((num1 + 10) >= num2)
        { 
            System.out.println("black");
            System.out.println("blue");
        }
    else
        System.out.print ("yellow");
System.out.println("green");
```

Output

2. Complete the following Java code fragment to print a message based on the value of the variable named temperature. If temperature is less than or equal to 50, it prints “it is cool”. If temperature is greater than or equal to 80, it prints “It is warm. If temperature is between 50 and 80, it prints “it is pleasant.”. (use back of this page if needed)

```java
Scanner scan = new Scanner(System.in);
System.out.print("Please enter current temperature");
int temperature = scan.nextInt();
```
1. What gets printed by the following program?

1. What is the output of the following code fragment?

```java
int num1 = 5; int num2 = 14;
if (num1 >= num2)
{
    System.out.println("red");
    System.out.print("orange");
}
if ((num1 + 5) >= num2)
    System.out.println("white");
else
    if ((num1 + 10) >= num2)
        { System.out.println("black");
          System.out.println("blue");
        }
    else
        System.out.println("yellow");
System.out.println("green");
```

**Output**

2. For each of the following Java code fragments, mark the error and show how to correct it. What do you need to do to fix it so that it works as appears to be intended?

a)  ```java
if (value = 0)
    System.out.print ("Right!");
```  

b)  ```java
if (value > 0);
    System.out.print ("Right!");
```  

c)  ```java
if (value > 0)
    System.out.print ("Right!");
    System.out.println(" value is positive");
```