1. What gets printed by 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

```
red
orange
white
green
```

2. Complete the following Java code fragment to print a message based on the value of the `int` 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();
if (temperature <= 50)
    System.out.println("It is cool");
else
    if (temperature < 80)
        System.out.println("It is pleasant");
    else
        System.out.println("It is warm");
// NB: there are many possible correct answers
```
1. What gets printed by the following code fragment?

```java
int num1 = 5; int num2 = 14;
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.println ("yellow");
System.out.println("green");
```

Output

```
black
blue
green
```

2. Complete the following algorithm to print the minimum of three numbers a, b, c.

**Variables:** a, b, c, min

**Algorithm:**

- **input a, b, c**
- **min = a**
- **if b<min**
  - **min = b**
- **if c<min**
  - **min = c**
- **print min**

// NB: there are many possible correct answers