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

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

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

2 Write a Java code fragment (NOT a complete program) that will print a message based on the value of the int variable named `temperature` (assume the value for `temperature` is already stored in that variable, so you do not need to input that). If `temperature` is equal to or less than 50, it prints “it is cool.” on one line and “Dress warmly.” on the next. If `temperature` is greater than 80, it prints “It is warm.” on one line and “Dress coolly.” on the next. If `temperature` is between 50 and 80, it prints “it is pleasant.” on one line and “Dress pleasantly.” on the next.

(Use back of this page to write your code)
1. What is the output of the following code fragment?

```java
int num1 = 5; int num2 = 12;

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

2. Assuming done is a boolean variable and value is an int variable, create a truth table for the expression:
   (value > 0) || !done

(use the back of this page)
Quiz 2

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

```java
int num1 = 5; int num2 = 27;

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

2. Assuming `done` is a boolean variable and `value` is an int variable, create a truth table for the expression:

   `(value > 0) && !done`

   (use the back of this page)
Quiz 2

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

```java
int num1 = 5; int num2 = 14;

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

2. What is wrong with the following Java code? What do you need to do to fix it so that it works as appears to be intended?

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

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

b) if (value > 0)
    System.out.print("Right!");
    System.out.println(" value is positive");
1. What is the output of the following code fragment?

```java
int num1 = 5; int num2 = 27;

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

2. Write a Java code fragment (NOT a complete program) that will print a message based on the value of the `int` variable named `temperature` (assume the value for `temperature` is already stored in that variable, so you do not need to input that). If `temperature` is equal to or less than 60, it prints “it is cool.” on one line and “Dress appropriately.” on the next. If `temperature` is greater than 90, it prints “It is hot.” on one line and “Dress appropriately.” on the next. If `temperature` is between 60 and 90, it prints “it is pleasant.” on one line and “Dress appropriately.” on the next.

(use back of this page to write your code)