1. How many unique colour values can the colourvariable contain?
2. What is the minimum value, maximum value, and range for each colour component?
3. Suppose the red component of the RGBA colour is to be stored in an 8-bit integer (byte) variable, and is set to the decimal value

Byte red = 94

Write this value as a binary number

1. The byte containing the red value (94) from question 3 is now to be stored in the RGBA colour value (inthe left-most byte).
2. What is the decimal value of the binary number from question 4?
3. Write the bit shifting operation (in C#) that will move all bits from the ‘R’ position in the colour variable to the ‘G’ position.
4. Our colour value now has the green colour component set, and no red, blue, or alpha colour component values.What are the decimal and binary value of the colourvariable now?
5. After you have created your Colour class and implemented all the functions listed in the class definition above, add at lease 1 new unit test to the unit test program using your answers in this exercise to verify your code.