*Write class that declares the following String.*

***“The quick brown fox jumps over the lazy dog”.***

*Perform the following modifications to the above string using appropriate*

*Methods.*

1. *Print the character at the 12th index.*
2. *Check whether the String contains the word “is”.*
3. *Add the string “and killed it” to the existing string.*
4. *Check whether the String ends with the word “dogs”.*
5. *Check whether the String is equal to “The quick brown Fox jumps over the lazy Dog”.*

*Check whether the String is equal to “*THE QUICK BROWN FOX JUMPS OVER THE LAZY DOG*”.*

1. *Find the length of the String.*
2. *Check whether the String matches to “The quick brown Fox jumps over the lazy Dog”.*
3. *Replace the word “The” with the word “A”.*
4. *Split the above string into two such that two animal names do not come together.*
5. *Print the animal names alone separately from the above string.*
6. *Print the above string in completely lower case.*
7. *Print the above string in completely upper case.*
8. *Find the index position of the character “a”.*
9. *Find the last index position of the character “e”.*
10. *Prompt the user to enter the home directory of Tomcat server. To the path that user enters, add another path to WebApps/MyApps/Images directory and display it in the console. Use verbatim string literals.*
11. *Write a C# code that has a constant string that represents poem lines*

*I WANDER'D lonely as a cloud  
That floats on high o'er vales and hills,*

*When all at once I saw a crowd,  
A host, of golden daffodils;Beside the lake, beneath the trees,  
Fluttering and dancing in the breeze.*

*Represent the line as it is without any escape characters to improve readability.*

*Other Exercise*

*1.Swap 2 numbers without using a third variable.*

*2.Consider user has N eggs. Then display the no of eggs in gross (144 eggs*

*make one gross) and no of eggs in dozen (12 eggs make one dozen) and*

*the no of eggs that is left out remaining. The total no of eggs can be got as*

*input through console. The program should display how many gross,*

*how many dozen, and how many left over eggs the user has. (20 Mins)*

*For example, if the input is 1342 eggs, then the program should respond*

*with*

* + - * *Your number of eggs is 9 gross, 3 dozen, and 10*
* *Check if the year entered by the user is a leap year.*

*(15 mins)*

* *User enters values for red, green and blue ( a number between 0 to 255). Use 3 variables only of appropriate data type to assign these values. A runtime error should be generated if incorrect value is assigned. If runtime error is not generated then use this table to print appropriate colors.*

|  |  |  |  |
| --- | --- | --- | --- |
| **Red** | **Green** | **Blue** | **Color** |
| 0 | 0 | Non zero | Bluish |
| Non zero | 0 | 0 | Reddish |
| 0 | Non zero | 0 | Greenish |

*A shopkeeper sells three products whose retail prices are as follows:*

*Write an application that reads a series of pairs of numbers as follows:*

|  |  |  |
| --- | --- | --- |
| **Product No** | **Product Code** | **Retail Price** |
| 1 | A | 22.50 |
| 2 | B | 44.50 |
| 3 | C | 9.98 |

*a) Product number or code (Code is not case sensitive)*

*b) Quantity sold*

*The application should use a switch statement to determine the retail price for each product. It should calculate and display the total retail value of all products sold.*