Task on Strings and Structure

1. **Take a string as input and count its length.**
   Sample Input: *I Like Programming.*
   Sample Output: *Length of string is 19.*

2. **Take a string as input and reverse it.**
   Sample Input: *I Like Programming.*
   Sample Output: *.gnimmargorP ekiL I*

3. **Take two strings as input and merge them.**
   Sample Input1: *I Like Programming.*
   Sample Input2: *Let's do some Practice.*
   Sample Output: *I Like Programming. Let's do some Practice.*

4. **Take a string as input and find how many vowels appears in it.**
   Sample Input: *I Like Programming.*
   Sample Output: *vowels appeared 6 times.*

5. **Take two strings as input and compare them.**
   Sample Input1: *Hello World.*
   Sample Input2: *Bye World.*
   Sample Output: *Not Same.*

6. **Write a program that will create custom ciphers (encoded words) on strings**. Follow this procedure:
   i. Write a function named ***encode*** that takes TWO parameters, a string **s** and an integer **j**.
   ii. Skip **j** number of characters in the string and increase the ASCII value of the next character by 2.
   iii. Perform step **(ii)** throughout the string.
   iv. Return the converted string from **encode** function.

   For example,
   Sample String (s): I am a student
   Sample Integer (j): 2
   Converted String: I cm c svudgnt

7. Write a Structure named ***Student*** with the following attributes:
   int id
   string name
   double cgpa
   char gender
   int creditCompleted
   string department
   bool checkProbation( ) // The structure also has the following method that checks for students whose cgpa is less than 2.5.

   Write a main function to create an array of 5 students and print the name of the probation students from the array.