7. String operations through arrays

CO2: Design searching and sorting algorithms using arrays and strings.

1. Write a program-using array to do the following string functions with and without out using library function
   - string length
   - string copy
   - string concatenation
   - string reverse
   - string compare
2. Write a C program to read a string, which consists of both lower case characters and upper case characters. Convert the lowercase character into upper case and vice versa. Display the new string.
3. Write a C program to accept a text and count the total vowels, consonants and spaces in the given text.
4. Write a C program to delete white spaces in a string.
   Sample run:
   Enter a string:good day   friend
   Given string:good day   friend
   String after removing space:gooddayfriend
5. Write a program to read an alpha numeric string and remove all alphabets.
   Sample run:
   Enter an alpha numberic string:12W56hj0
   Given string:12W56hj0
   String after removing alphabets:12560
6. Write a program to find the shortest word in the given string.
7. Write a program to split the string using strtok function.
8. Write a C program to encrypt the text "INDIA". The output should be "KPFKC". ('A' is to be replaced with 'C', 'B' with 'D' and 'C' with 'E' and so on.)
9. A string of characters is given for a telegraphic message. Write a C program to print the amount to be paid for the telegram, considering the following conditions. If the number of words is less than or equal to 10 then the minimum charge of Rs 5.00 to be paid, otherwise Rs 5.00 plus Rs 1.25 for each additional word is to be paid by the customer.
10. Write a C program to arrange the set of names received from the user in alphabetic order.