ASSIGNMENT-22

Pointers

Pointer: Pointer is a special variable capable of holding address of another variable. Ordinary variable cannot hold address of other variables.

Note: In all programs you need to use pointers.

For programs 3 to 7, you need to access the array using pointer only.

1. Write a C program to swap values of two variables of ***calling*** function using pointers (call by reference)
2. Write a program in C to find the maximum number between two numbers using a pointer. You need to create a function with the following prototype:

int findMax(int \*ptr1, int \*ptr2)

Here ptr1 and ptr2 will hold the addresses of two variables respectively. Function will return the maximum number. Print that maximum number in main() function.

1. Write a program to calculate the length of the string using a pointer. Use the following prototype:

int calStringLength(char \*ptr, int arraysize)

This function will receive the address of string in ptr and returns the length of string.

1. Write a program to count the number of vowels and consonants in a string using a pointer.
2. Write a program to compute the sum of all elements in an array using pointers.
3. Write a program to print the elements of an array in reverse order using pointer.
4. Write a program to print a string in reverse using a pointer