**Day-8 Assignments**

**Pointers**

1. Write a program to perform the swap operation

Write a swap function and use call by reference.

1. Write a C program to read through an array of any type using pointers. Copy the elements of the first array to second array using pointers.

Hint: a[i] = \*(a+i)

1. Write a program in C to store n elements(read from standard input) in an array and print the elements using pointer
2. A C program contains the following declaration

int x[8]= {10,20,30,40,50,60,70,80};

What is the value of x? (and understand)

What is the value of (x+2)? (and understand)

What is the value of \*x?

What is the value of (\*x+2)?

What is the value of \*(x+2)?.

**Pointers and strings**

1. C program to search element in array (1-D)using pointers
2. Write a C program to print all elements of two dimensional array using pointers.
3. Implement string library functions strlen, strcpy, strcat, strcmp with same return values and all error handling features using pointers.
4. Write a C program to find reverse of a string using pointers.
5. Write a program in C to count the number of vowels and consonants in a string using a pointer.