# Day-6 Assignments

**Pointers**

1. Write a C program that declares and initializes (to any value you like) a char, an int, a double and a float. Your program should then print the address of, and value stored in, each of the variables.
   Use the format string "%u" [%p in hex] to print the addresses as unsigned integers.
   Hint: You can use the character "&" to find addresses.

2. Write a C program to declare an integer and an integer pointer to it. Initialize the integer variable. Print the value of the int variable using pointer variable.

   Hint: You can use dereferencing operator *.

3. Write a program to perform the swap operation
4. Write a swap function and use call by reference.
5. 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)

6. 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)?.