**Chapter 2: POINTERS**

**Topic – 1: General Information**

* Memory addresses are stored as **hexadecimal** values.
* **\*** is called **indirection/dereference** operator.
* **Dereferencing**: Process of checking what a pointer is pointing to.
* We use parentheses around ***(\*ptr)++*** during **unary** operations.

**Topic – 2: Function Pointers**

**void func(int x) {printf("%d", x);}**

**void (\*ptr)(int); // Pointer for a function of type void, taking int**

**ptr = func; // Assigning pointer to a function**

**ptr(3); // Performing function**

* A function with use of its pointer, can only be performed but **not** printed.

**Using Pointers As Conditional Statements**

***int add(int x, int y);***

***int sub(int x, int y);***

***int mult(int x, int y);***

***int div(int x, int y);***

***int (\*op[4])(int,int)***

***op[1] = add;***

***op[2] = sub;***

***op[3] = mult;***

***op[4] = div;***

***int choice;***

***scanf("%d", &choice);***

***printf("%d", op[choice](a,b));***