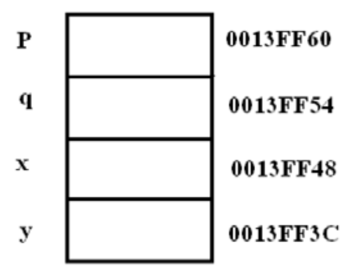
Computer Programming (CS1123) – (Section 2)

= =

```
void main()
{
int   iArr[] = {10, 20, 30, 40, 50};
int *p = iArr;
int *q = iArr +2;
int *r = &iArr[1];
cout<<iArr[4]<<"   "<<*(iArr+3)<<endl;
cout<<*p<<"   "<<*q<<endl;
cout<<*q<<"   "<<*(r+1)<<endl;
}
```

```
#include<iostream>
using namespace std;
void main()
{
    int *p, *q, x = 10, y = 20;
    p = &x;
    q = &y;
    *p = x+3;
    cout<<*p<<"     "<<x<<endl;
    cout<<*q<<"      "<<y<<endl;
    cout<<&x<<"    "<<&y<<endl;
    cout<<*p<<"    "<<y<<endl;
}
```



Q: Swap two int type variables A and B using pointer notation

Q: Write a program that reads prices of 10 products from the user and places them in an array of type float. After that, it should compute average price of all entered products. **<u>Note:</u> Use pointer notation to access array elements.**

Q: Write a structure that a video store can use in a program to save a video tape record. Make sure that the structure includes the tape's title, cost of the tape, and rental price of the tape. Define three structure variables and initialize them when you declare the structure variables. Print all data values to the screen.

Q: Write a Teacher's program that keeps track of 3 student id, names, ages, grade, and marks. Use 3 different structure variable names and get the data for the students from user. Print a student record having id equal to 3.

Q: Write a program that defines a structure to store the distance (float type) covered by a Runner along with the time taken to cover that distance. The program should input

the records of two players and then display the record of winner only on the basis of distance covered.

Q: Write a program that defines a structure to store the ID, name, and salary of an employee. The program declare two structure variables, input records of two employees and then displays only the record of employee having more salary.

Q: Suppose that you work for a company that sells disk drives. You are given the task to save information for 125 disk drives (Hint: consider array of structure). It is required to keep the following information:

- Disk ID
- Storage Capacity of Drive in GigaBytes
- Access Time in Seconds
- Vendor Code (A, B, C, or D)
- Cost
- Price
- Print a disk record having ID equal to 100.