

1. Write a program to perform basic arithmetic operations on two integers using pointers

```
#include<iostream.h>
#include<conio.h>
void main ()
{
    int x,y, ch;
    int * p1, * p2;
    clrscr();
    p1 = &x;
    p2 = &y;
    cout<<"\nEnter the values : ";
    cin>>x>>y;
    cout<<"1. Add. 2. Sub. 3. Mul. 4. Div. 5. Exit";
    cout <<"\n Enter the choice :";
    cin>>ch;
    switch(ch){
        case 1:      cout << "\n result is " << *p1 + *p2 ;
                     break;
        case 2:      cout << "\n result is " << *p1 - *p2 ;
                     break;
        case 3:      cout << "\n result is " << *p1 * *p2 ;
                     break;
        case 4:      cout << "\n result is " << *p1 / *p2 ;
                     break;
        case 5:      exit(0);
    }
}
```

2. Write a program to exchange the values of 2 variables using pointers

```
#include<iostream.h>
#include<conio.h>

void main(){
    int x, y, t,*a,*b;
    a=&x; b=&y;
    clrscr();
    cout<<"Enter values of a and b : ";
    cin>>*a>>*b; // equivalent to cin>>x>>y;
    t=*a;
    *a=*b;
    *b=t;
    cout<<"x="<<x;
    cout<<"y="<<y;
}
```