```
//operatorDemo for bit-wise operators
#include<iostream>
using namespace std;
int main()
  unsigned int a = 5, b = 9;
  cout<<"\na = "<<a<<" b = "<<b;</pre>
  cout<<"\n a << 1 "<< (a << 1);
  cout<<"\n a >> 1 "<< (a >> 1);
  cout<<"\n a & b "<< (a & b);
  cout<<"\n a | b "<<(a | b);
  cout<<"\n a ^ b "<<(a ^ b);
  cout<<"\n ~a "<<(~a);
  return 0;
}
//Implicit Explicit Demo.cpp
#include<iostream>
using namespace std;
int main()
  char c1,c2;
  int i1, i2;
  float f1,f2;
  c1='H';
  i1=80.56; /*float converted to int, only 80 assigned to i1 */
  f1=12.6;
            /*int converted to char */
  c2=i1;
           /*float converted to int */
  i2=f1;
  /*Now c2 has the character with ASCII value 80, i2 is assigned value 12 */
  cout << "\n c2 = "<< int(c2) << " i2 = "<< i2;  //c2 = 80 i2 = 80
  f2=i1;
                                /*int converted to float*/
                                /*char converted to int */
  i2=c1;
  /*Now i2 contains ASCII value of character 'H' which is 72*/
  cout<<"\n f2 = "<<f2<<" i2 = "<<i2;  //f2 = 80 i2 = 72
  int x=5,y=2;
  float p,q;
  p=x/y;
  cout<<"\n p = "<<p;
                             //2
  q=(float)x/y;
  cout<<" q = "<<q;
                          //2.5
  return 0;
}
```

## Try these expressions -

```
int a,b,c,d,e,f,g,h,k;
a=8, b=4, c=2, d=1, e=5, f=20;
cout<<"exp1 :" << (a+b-(c+d)*3%e+f/9);
a=17, b=5, c=6, d=3, e=5;
cout<<"exp2 :" <<(a%6-b/2+(c*d-5)/e);
a=4, b=5, c=6, d=3, e=5, f=10;
cout<<"exp3 :" <<(a*b-c/d<e+f);
a=8, b=5, c=8, d=3, e=65, f=10, g=2, h=5, k=2;
cout<<"exp4 :" <<(a-b+c/d=e/f-g+h%k);
a=8, b=3, c=2, d=3, e=2, f=11;
cout<<"exp5 :"<<(a-b||(a-b*c)+d&&e-f%3);</pre>
```