```
#include<iostream.h>
#include<conio.h>
class circle
       int r;
       float area;
   public:
       circle(int a)
               r=a;
       void disp()
               cout << "area=" << 3.14*r*r;
};
class rectangle:public circle
       int l,b;
   public:
       rectangle(int a,int m,int n):circle(a)
   {
       l=m;
       b=n;
   void result()
       cout<<"area="<<1*b;
};
void main()
       int a,c,d;
       clrscr();
       cout << "enter radius of circle";
       cin>>a;
       cout<<"enter sides";</pre>
       cin>>c>>d;
       rectangle obj(a,c,d);
       cout<<"circle\n";
       obj.disp();
       cout << "\n rectangle \n";
       obj.result();
}
```

## Single inheritance without constructor

```
#include<iostream.h>
#include<conio.h>
class circle
       int r;
        float area;
   public:
       void get(int a)
        {
               r=a;
        void disp()
               cout << "area="3.14*r*r;
};
class rectangle::public circle
       int l,b;
   public:
   void init(int m,int n)
       1=m;
       b=n;
   void result()
       cout<<"area="<<1*b;
};
void main()
        int a,c,d;
        clrscr();
       cout<<"enter radius of circle";</pre>
        cin>>a;
        rectangle obj;
        obj.get(a);
        cout<<"enter sides";</pre>
       cin>>c>>d;
       obj.init(c,d);
       cout<<"circle\n";
       obj.disp();
       cout << "\n rectangle \n";
       obj.result();
}
```