```
class circle{
  public:
  int radius;
  float ar;
  circle()
  {
    radius=0;
  }
  circle(int r)
  {
    radius=r;
  }
  void area()
  {
    ar=3.14*radius*radius;
  }
};
class showarea: public circle
{
  public:
  showarea():circle()
  {
  }
  showarea(int r): circle(r)
  {
```

```
}
  void show()
    cout<<ar;
  }
};
int main()
{
showarea cir(5);
cir.area();
cir.show();
return 0;
}
▼ □ MULITPLE INHERITANCE
#include<iostream>
using namespace std;
class A{
  public:
 void func(){
    cout<<" i am in class A"<<endl;
 }
```

**}**;

```
class B{
  public:
  void func(){
    cout<<"i am in class B"<<endl;
  }
};
class c : public A,public B{
};
int main()
{
  c obj;
  obj.A::func();
  obj.B::func();
  return 0;
}
▼ □ MULTILEVEL INHEIRTANCE
class circle{
  public:
  int radius;
  circle()
  {
    radius=0;
  }
```

```
circle(int r)
    radius=r;
  }
};
class areacalculate: public circle{
public:
float ar;
areacalculate():circle()
{
}
areacalculate(int r):circle(r)
}
void area()
ar=3.14*radius*radius;
}
}
class showarea: public areacalculate
{
  public:
  showarea():areacalulate()
  {
```

```
}
  showarea(int r): areacalculate(r)
  {
  }
  void show()
  {
    cout<<ar;
  }
};
int main()
{
showarea cir(5);
cir.area();
cir.show();
return 0;
}
hybird inheritance
class A {
public:
  void displayA() {
    cout << "This is class A" << endl;</pre>
 }
};
```

```
class B : public A {
public:
  void displayB() {
    cout << "This is class B" << endl;</pre>
 }
};
class C : public A {
public:
 void displayC() {
    cout << "This is class C" << endl;
 }
};
class D : public B, public C {
public:
  void displayD() {
    cout << "This is class D" << endl;
 }
};
int main() {
  B objB;
  C objC;
  D objD;
  objB.displayA();
  objB.displayB();
```

```
objC.displayA();
  objC.displayC();
  objD.displayA();
  objD.displayB();
  objD.displayC();
  objD.displayD();
  return 0;
}
hierarical inheritance
#include <iostream>
using namespace std;
class A {
public:
  void displayA() {
    cout << "This is class A" << endl;
  }
};
class B : public A {
public:
  void displayB() {
    cout << "This is class B" << endl;</pre>
  }
};
```

```
class C : public A {
public:
  void displayC() {
    cout << "This is class C" << endl;
  }
};
int main() {
  B objB;
  C objC;
  objB.displayA();
  objB.displayB();
  objC.displayA();
  objC.displayC();
  return 0;
}
```