```
// Static Data members
#include<iostream>
class student
 public:
 static int x;
 int y = 10;
 void fun()
  {
    std::cout<<y<<"\t"<<x<<std::endl;</pre>
 }
};
int student::x=10;
int main()
{
  student obj,obj1;
  for(int i=10;i>0;i--)
    obj.fun();
    student::x--;
 obj1.fun();
  return 0;
//static member function
# include<iostream>
class Demo
{
public:
 int x = 10;
 static int y;
 void fun()
  std::cout<<x<<"\t"<<y<std::endl;</pre>
 }
 static void gun()
 std::cout<<y;
                         //shows error for this line, non static data member in
 //std::<<cout<<x;
staic function
}
};
int Demo::y=20;
int main()
Demo obj;
obj.fun(); // allowed
obj.gun(); // allowed
 Demo::gun(); // allowed
```