Assignment: Namespace

```
#include<iostream>
using namespace std;
namespace SY{
       class SYMARKS{
  double
               computer_total;
  double mathstotal;
        double electronicstotal;
        public:
       SYMARKS(){
               this->computer_total=0;
               this->mathstotal=0;
               this->electronicstotal=0;
       }
       void display(){
               cout<<this->computer_total<<endl;</pre>
               cout<<this->mathstotal<<endl;
               cout<<this->electronicstotal<<endl;
       }
       SYMARKS(double a,double b,double c){
               this->computer_total=a;
               this->mathstotal=b;
               this->electronicstotal=c;
       }
       void setcomputertotal(double a){
               this->computer_total=a;
       }
       void setmathstotal(double a){
               this->mathstotal=a;
       }
```

```
void setelsectronictotal(double a){
                this->electronicstotal=a;
        }
        double getelsectronictotal(){
                return this->electronicstotal;
        }
        double getmathtotal(){
                return this->mathstotal;
        }
        double getcompputertotal(){
                return this->electronicstotal;
        }
        };//Sy marks end here
}
namespace TY{
        class TYMarks {
                double theory;
    double Practical;
    public:
    TYMarks(){
        this->theory=0;
        this->Practical=0;
               }
                TYMarks(double a, double b){
        this->theory=a;
        this->Practical=b;
                }
                void settheory(double a){
                        this->theory=a;
                }
                void setpractical(double b){
```

```
this->Practical=b;
               }
               double gettheory(){
                        return this->theory;
               }
               double getpractical(){
                        return this->Practical;
               }
       };
}
using namespace SY;
using namespace TY;
class Student {
       int rollno;
       char name[30];
  SY::SYMARKS sym;
  TY::TYMarks tym;
  public:
  Student(){
       this->rollno=0;
       strcpy(this->name,"not given");
       this->sym.setcomputertotal(0);
       this->sym.setelsectronictotal(0);
       this->sym.setmathstotal(0);
       this->tym.settheory(0);
       this->tym.settheory(0);
       Student(int rollno,char*name,SYMARKS sy,TYMarks ty){
       this->rollno=rollno;
       strcpy(this->name,name);
        this->sym.setcomputertotal(sy.getcompputertotal());
```

```
this->sym.setmathstotal(sy.getmathtotal());
        this->sym.setelsectronictotal(sy.getmathtotal());
        this->tym.setpractical(ty.gettheory());
        this->tym.settheory(ty.gettheory());
        }
        double calmark(){
        double totalmark=this->sym.getcompputertotal()+(this->tym.gettheory()+this-
>tym.getpractical());
        return totalmark;
        }
        // double totalmark=this->sym.getcompputertotal()+(this->tym.gettheory()+this-
>tym.getpractical());
        void Result(){
         if(calmark()>=70){
                cout<<"Gread A "<<endl;
         }
         else if(calmark()>=60){
                cout<<"Gread B"<<endl;</pre>
         }
         else if(calmark()>=50){
                cout<<"Gread C"<<endl;
         }
         else if(calmark()>=40){
                cout<<"Pass"<<endl;
         }
         else {
                cout<<"Fail"<<endl;
         }
        }
```

```
void display(){
                cout<<"Roll No = "<<this->rollno<<endl;</pre>
                cout<<"Name is = "<<this->name<<endl;</pre>
                cout<<"Computer Total = "<<this->sym.getcompputertotal()<<endl;</pre>
                cout<<"Math Total Mark = "<<this->sym.getmathtotal()<<endl;</pre>
                cout<<"Electronics Total Marks "<<this->sym.getelsectronictotal()<<endl;</pre>
                cout<<"Theory Marks = "<<this->tym.gettheory()<<endl;</pre>
                cout<<"Practical Marks = "<<this->tym.getpractical()<<endl;</pre>
                //cout<<"Gread = ";
                //this->Result();
        }
};
int main(){
        SYMARKS S(90,78,56);
        TYMarks T(30,56);
        Student S1(1,"Ashutosh Shleke",S,T);
        S1.display();
        cout<<"Result is = ";</pre>
        S1.Result();
```

}