SILVER DOLLAR CLUB



Project by:

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St. Columba's School

CBSE Roll no.:

<u>Aim</u>

To encourage students to take part in extra-curricular activities.

CERTIFICATE

This is to certify that
SOURISH DAS of class XII E
has made this project titled
SILVER DOLLARS CLUB
under our supervision
and has completed the project
to our satisfaction.

Mrs. Nagpal Computer Department St. Columba's School Mr. Fernandes Computer Department St. Columba's School

ACKNOWLEDGEMENT

I would like to express
my heartfelt thanks and gratitude to
Mrs. Nagpal and Mr. Fernandes
for supporting me to undertake this interesting project
and helping me
in the successful completion of the same.

LIST OF HEADER FILES USED

Name of header file	Functions used	
	 Includes definitions for stream 	
	classes fstream, ifstream &	
	ofstream.	
fstream.h	❖ Also includes functions <i>open</i> ,	
	write, read & close used for	
	operations on binary and text	
	files.	
	• getch()	
	clrscr(): clearing screen	
conio.h	gotoxy : place the text on	
	various locations on output	
	screen.	
stdio.h	gets : for inputting strings into	
	program	
process.h	exit(0): for exiting program	
	strcmp: for checking	
	password; case sensitive	
string.h	comparison	
	strempi: for comparing 2	
	separate cases irrespective of	
	case.	
	strcpy: for copying one	
	string into the another; used	
	in modification & addition	
	functions	

LIST OF FUNCTIONS USED

Function name	Use		
void addnew()	To add data for each member		
void leaveclub()	To delete the record for a member		
void modify_details()	To make changes in details of club members		
void search_name()	To search on the basis of name		
void search_cid()	To search on the basis of club id		
void search_cname()	To search on the basis of activity		
void show_all()	To display all the members		
void boundary()	Give a designed boundary to each page of program		
void border()	Give a designed border for various pages of program		
void home()	For providing a homescreen to the program		

CLASS DEFINITION

```
class club
{
   private:
        int cid, cls;
        char name[60], clubname[40];
   public:
       char *retname();
        int retid();
        char *retcname();
        int retcls();
       void getdata();
       void putdata(int row);
       void change name(char tname[]);
       void change_cls(int tcls);
       void change cname(char tcname[]);
};
club c, c1, c2;
```

SOURCE CODES

```
#include<fstream.h>
#include<conio.h>
#include<stdio.h>
#include<string.h>
#includecess.h>
#include<dos.h>
void border();
void boundary();
void home();
void addnew();
void leaveclub();
void modify_details();
void search_cid();
void search cname();
void search name();
void show_all();
void border()
{
      int x,y;
      for(x=0;x<=39;x++)
             gotoxy(2*x+1,1);cout<<"-";
             gotoxy(2*x+1,24);cout<<"-";
      for(y=0;y<=11;y++)
      {
             gotoxy(1,2*y+1);cout<<"-";
             gotoxy(1,2*y+2);cout<<"-";
             gotoxy(79,2*y+1);cout<<"-";
             gotoxy(79,2*y+2);cout<<"-";
      }
void boundary()
      int i,j;
      for(i=1;i<=24;++i)
      {
             gotoxy(1,i);cout<<(char)177;
             gotoxy(2,i);cout<<"-";
             gotoxy(3,i);cout<<(char)177;
             gotoxy(78,i);cout<<(char)177;
             gotoxy(79,i);cout<<"";
```

```
gotoxy(80,i);cout<<(char)177;
      for(j=1;j<=80;++j)
             gotoxy(j,1);cout<<(char)177;
             gotoxy(j,2);cout<<"*";
             gotoxy(j,3);cout<<(char)177;
             gotoxy(j,22);cout<<(char)177;
             gotoxy(j,23);cout<<"*";
             gotoxy(j,24);cout<<(char)177;
      }
}
void home()
      clrscr();
      gotoxy(1,1);cout<<"
      gotoxy(1,2);cout<<"
      gotoxy(1,3);cout<<"
      gotoxy(1,4);cout<<"
      gotoxy(1,5);cout<<"
                                 000
                                 00000
      gotoxy(1,6);cout<<"*
      gotoxy(1,7);cout<<" **
                                 00000
      gotoxy(1,8);cout<<" ****
                                  000
      gotoxy(1,9);cout<<"
      gotoxy(1,10);cout<<"
      gotoxy(1,11);cout<<"
                                                # Silver Dollars #
                                   ****Unleash the Uniqueness in you!!!
      gotoxy(1,12);cout<<"
      gotoxy(1,13);cout<<"
      gotoxy(1,14);cout<<"
      gotoxy(1,15);cout<<"
      gotoxy(1,16);cout<<"
      gotoxy(1,17);cout<<"
                                                                       00000
      gotoxy(1,18);cout<<"
                                                                      00000
      gotoxy(1,19);cout<<"
                                                                        000
      gotoxy(1,20);cout<<"
      gotoxy(1,21);cout<<"
      gotoxy(30,24);cout<<"Press ENTER to continue ";
      getch();
}
```

```
//-----//
class club
      private:
            int cid, cls;
            char name[60], clubname[40];
      public:
            char *retname()
            { return name; }
            int retid()
            { return cid;}
            char *retcname()
            { return clubname; }
            int retcls()
            { return cls; }
            void getdata()
            {
                   gotoxy(5,5);cout<<"Enter club id: ";cin>>cid;
                   gotoxy(5,6);cout<<"Enter name: "; gets(name);
                   gotoxy(5,7);cout<<"Enter class: "; cin>>cls;
                   gotoxy(5,8);cout<<"Enter club name: "; gets(clubname);
            void putdata(int row);
            void change_name(char tname[])
                   strcpy(name,tname); }
            void change cls(int tcls)
                   cls=tcls; }
            void change cname(char tcname[])
                   strcpy(clubname,tcname); }
}; club c;
void club::putdata(int row)
      border();
      for(int i=3; i<22; i++)
      {
            gotoxy(22,i);cout<<char(177);
            gotoxy(41,i);cout<<char(177);
            gotoxy(55,i);cout<<char(177);
      gotoxy(7,4);cout<<"CLUB ID";
      gotoxy(30,4);cout<<"NAME";
      gotoxy(43,4);cout<<"CLASS";
      gotoxy(58,4);cout<<"CLUB NAME";
```

```
gotoxy(5,row);cout<<cid;
      gotoxy(27,row);cout<<name;
      gotoxy(45,row);cout<<cls;
      gotoxy(60,row);cout<<clubname;
void addnew()
      fstream fin,fin1; club c2;
      char ch='y'; int found;
      fin.open("Member.dat",ios::in|ios::binary);
      while(ch=='y'|| ch=='Y')
            clrscr(); border();
            c.getdata();
            while(fin)
              found=0;
              fin.read((char*)&c2,sizeof(c2));
              if(fin.eof())
                   break;
              else if(c2.retid() == c.retid())
              gotoxy(8,15);cout<<"Sorry, the club id already exists!! Please try again.";
                   found=1;
                   getch();
                   break;
            fin.close();
            if(found==0)
                   fin1.open("Member.dat",ios::app|ios::binary);
                   fin1.write((char*)&c,sizeof(c));
                   gotoxy(8,14);cout<<"New member added successfully!!";
                   fin1.close();
            gotoxy(8,16);cout<<"Do you want to add more ? (y/n) : ";
            cin>>ch;
      getch();
      int I,j,i=0;
```

```
club arr[20];
       fstream f1;
       f1.open("Member.dat",ios::in|ios::binary);
       while(f1)
       {
              f1.read((char*)&arr[i],sizeof(c));
              if(f1.eof())
                      break;
              ++j;
       f1.close();
       club c1;
       for(I=0;I<(i-1);++I)
              for(j=0;j<(i-l-1);++j)
              {
                      if(arr[j].retid()>arr[j+1].retid())
                             c1=arr[i];
                             arr[j]=arr[j+1];
                              arr[j+1]=c1;
                      }
              }
       }
       ofstream f;
       f.open("Member.dat",ios::binary);
       for(int k=0; k< i; ++k)
              f.write((char*)&arr[k],sizeof(c1));
       f.close();
void leaveclub()
       clrscr(); border();
       ifstream fin("Member.dat", ios::in|ios::binary);
       ofstream fout("Member2.dat", ios::out|ios::binary);
       int tclubid, found=0;
       gotoxy(5,6);cout<<"Enter the club id of the person leaving = ";
       cin>>tclubid;
       while(fin)
       {
              fin.read((char*)&c, sizeof(c));
              if(fin.eof())
                      break;
```

```
if(c.retid()==tclubid)
                     found=1;
              else
                     fout.write((char*)&c, sizeof(c));
       if(found==0)
              gotoxy(5,18);cout<<"Record not found!!";
       else
              gotoxy(5,18);cout<<"Record deleted successfully!!";
       fin.close();
       fout.close();
       remove("Member.dat");
       rename("Member2.dat","Member.dat");
       getch();
}
void modify_details()
       clrscr(); boundary();
       fstream f;
      f.open("Member.dat",ios::in|ios::out|ios::binary);
       int tcls,tid, found=0, row=6, ch=0, tt=0;
       char tcname[60],tname[60];
       gotoxy(5,6);cout<<"Please enter the club ID: ";
       cin>>tid;
       clrscr();
       while(f)
       {
              f.read((char*)&c,sizeof(c));
              tt++;
              if(f.eof())
                     break:
              if(c.retid()==tid)
              {
                     found=1;
                     c.putdata(row);
                     getch();
                     break;
              }
```

```
if(found==0)
      { gotoxy(7,20);cout<<"Sorry, no record found!!"; return;}
while(ch!=4)
      clrscr(); border();
      gotoxy(5,7);cout<<"What do you wish to edit in here?";
      gotoxy(6,9);cout<<"1. Name";
      gotoxy(6,10);cout<<"2. Class";
      gotoxy(6,11);cout<<"3. Club Name";
      gotoxy(6,12);cout<<"4. Exit to Main menu";
      gotoxy(5,13);cout<<"Enter your choice here: "; cin>>ch;
      switch(ch)
      {
              case 1 : clrscr(); border();
                     gotoxy(6,6);cout<<"Enter the new name: ";
                     gets(tname);
                     c.change name(tname);
                     f.seekp(((tt-1)*sizeof(c)),ios::beg);
                     f.write((char*)&c,sizeof(c));
                     gotoxy(5,10);cout<<"Name changed successfully!!";
                     getch();
                    break;
              case 2 : clrscr(); border();
                     gotoxy(6,6);cout<<"Enter the new class: ";
                     cin>>tcls;
                     c.change cls(tcls);
                     f.seekp(((tt-1)*sizeof(c)),ios::beg);
                     f.write((char*)&c,sizeof(c));
                     gotoxy(5,10);cout<<"Class updated successfully!!";
                      getch();
                    break;
              case 3 : clrscr(); border();
                     gotoxy(6,6);cout<<"Enter the new club name: ";
                    gets(tcname);
                    c.change cname(tcname);
                    f.seekp(((tt-1)*sizeof(c)),ios::beg);
                    f.write((char*)&c,sizeof(c));
                    gotoxy(5,10);cout<<"Club name modified successfully!!";
                    getch();
                    break;
}
```

```
f.close();
      getch();
void search_name()
       clrscr(); border();
       ifstream f;
       char sname[10]; int found=0, row=6;
       gotoxy(5,5);cout<<"Enter name of the member to be searched:";
       gets(sname);
      f.open("Member.dat",ios::in|ios::binary);
      while(f)
             f.read((char*)&c,sizeof(c));
             if(f.eof())
                     break;
             else if(strcmpi(sname,c.retname())==0)
                     found=1;
                     c.putdata(row);
                     row=row+2;
                     if(row==20)
                     {
                           gotoxy(6,23);cout<<"Press Enter to continue to next page.";
                           clrscr();
                           row=6;
                           getch();
                     }
             }
       if(found==0)
             gotoxy(6,13);cout<<"Sorry no record found!!!";
      f.close();
      getch();
void search_cid()
       clrscr(); border();
       ifstream f;
       int tcid, found=0,row=6;
```

```
gotoxy(5,5);cout<<"Enter Club ID: ";
       cin>>tcid;
      f.open("Member.dat",ios::in|ios::binary);
      while(f)
       {
              f.read((char*)&c,sizeof(c));
              if(f.eof())
                     break;
              else if(c.retid()==tcid)
                     found=1;
                     c.putdata(row);
                     row=row+2;
                     if(row==22)
                            clrscr();
                            row=6;
                            getch();
                     }
              }
      f.close();
       if(found==0)
      { gotoxy(6,13);cout<<"Sorry no record found!!!"; }
      getch();
void search cname()
       clrscr(); border(); ifstream f;
       char tcname[40]; int found=0, row=6;
      gotoxy(3,4);cout<<"Enter the club name of the person: ";
       gets(tcname);
       clrscr();
      f.open("Member.dat",ios::in|ios::binary);
      while(f)
              f.read((char*)&c,sizeof(c));
              if(f.eof())
                     break;
              else if(strcmpi(tcname,c.retcname())==0)
              {
                     found=1;
                     c.putdata(row);
```

```
row=row+2;
                     if(row==23)
                     {
                            gotoxy(6,23);cout<<"Press Enter to continue to next page.";
                            clrscr();
                            row=6;
                            getch();
                     }
              }
      f.close();
       if(found==0)
      { gotoxy(6,13);cout<<"Sorry no record found in club "<<tcname;
                                                                             }
       getch();
void show_all()
       clrscr(); border();
       int x,y,z,row=6; ifstream f;
      f.open("Member.dat",ios::binary);
       while(f)
       {
              f.read((char*)&c,sizeof(c));
              if(f.eof())
                     break;
              c.putdata(row);
              row=row+2;
              if(row==22)
                     gotoxy(6,23);cout<<"Press Enter to continue to next page.";
                     getch();
                     clrscr();
                     row=6;
              }
      f.close();
      f.open("member.dat",ios::in);
      f.seekg(0,ios::end);
       x=f.tellg();
       y=sizeof(c); z=x/y;
       gotoxy(5,23);cout<<"Total no. of records: "<<z;
      f.close();
       getch();
```

```
}
      -----//
void main()
{
      clrscr();home();
      clrscr();boundary();
      int ch=0;
      char pwd[13]=\{0\}, temp; int i=0;
      gotoxy(16,12);cout<<"ENTER PASSWORD: ";
      while((temp=getch())!=13)
      {
            pwd[i++]=temp;
            cout<<"*";
      if(strcmp(pwd,"sahnidas98")==0)
            gotoxy(15,15);cout<<"Access granted !!!":
            getch();
      }
      else
      {
            gotoxy(15,15);cout<<"Password wrong!!! Exiting...";
            getch(); exit(0);
      while(ch!=6)
            clrscr(); boundary();
            gotoxy(21,6);cout<<"WELCOME TO SILVER DOLLAR CLUB !!!";
            gotoxy(20,8);cout<<"Please choose from the following options :- ";
            gotoxy(25,11);cout<<"1. Add new member";
            gotoxy(25,12);cout<<"2. Search the clubs";
            gotoxy(25,13);cout<<"3. Modify details";
            gotoxy(25,14);cout<<"4. Delete record";
            gotoxy(25,15);cout<<"5. Show records";
            gotoxy(25,16);cout<<"6. Exit";
            gotoxy(27,19);cout<<"Enter choice = ";cin>>ch;
            switch(ch)
            {
                  case 1 : addnew();
                         break;
                  case 2: int s=0;
                         while(s!=4)
                         {
```

```
clrscr(); boundary();
                        gotoxy(17,6);cout<<"Search on the basis of following: -";
                              gotoxy(22,8);cout<<"1. Search by Name";
                              gotoxy(22,10);cout<<"2. Search by Club Name";
                              gotoxy(22,12);cout<<"3. Search by Club ID";
                              gotoxy(22,14);cout<<"4. Exit Search menu";
                              gotoxy(22,16);cout<<"Enter choice: ";cin>>s;
                              switch(s)
                                     case 1 : search_name();
                                     break;
                                     case 2 : search_cname();
                                     break;
                                     case 3 : search_cid();
                                     break;
                              }
                         break;
                  case 3 : modify_details();
                      break;
                  case 4 : leaveclub();
                        break;
                  case 5 : show_all();
                        break;
                  case 6 : exit(0);
            }
     }
}
                -----//
```

OUTPUT SCREENS





```
WELCOME TO SILUER DOLLAR CLUB !!!

Please choose from the following options :-

1. Create file
2. Add new member
3. Search the clubs
4. Modify details
5. Delete record
6. Show records
7. Exit

Enter choice = 2
```

```
AV
                                                           AV
VA.
                                                           VA
AT
                                                           AV
  Enter club id : 2
VA.
                                                           YA
  Enter name : Raghav
                                                           AV
AV
  Enter class: 12
                                                           VA.
  Enter club name : Sports
                                                           AV
AV
VA.
                                                           VA
AV
                                                           AV
VA
                                                           YA
AV
                                                           AV
¥4
                                                           VA.
     New member added successfully!!
AV
                                                           AV
V.
                                                           TA.
     Do you want to add more ? (y/n) : y_
AV
                                                           AV
VA
                                                           VA
AV
                                                           AV
VA.
                                                           ¥4
AV
                                                           AV
WA
                                                           YA
AV
                                                Activate Windows
                                                           AV
                                                 Go to PC settings to activate Windows
VA.
```

Search on the basis of following :-	
1. Search by Name	
2. Search by Club Name	
3. Search by Club ID	
4. Exit Search menu	
Enter choice : 1	

```
AV
                                                AV
\nabla A
                                                VA
▲▼Enter the club name of the person : Arts
                                                AV
                                                VA.
AV
                                                AV
VA.
                                                ¥.
AV
                                                AV
VA
                                                VA.
                                                AV
AV
VA.
                                                ¥4
                                                AT
AV
VA
                                                VA.
AT
                                                AV
VA.
                                                YA
AT
                                                AV
VA
                                                VA
AV
                                                AV
VA
AV
                                                AV
                                                YA
WA
                                                AV
AT
                                        Go to PC settings to activate Wi
```

CLUB ID	NAME	CLASS	CLUB NAME	¥ *======
v 1	Sourish	1 2	Arts	A.
74				₩.
LV.				A
7Å				▼.
LV .				A
7A				▼.
LV.				A
7.4				▼.
LV.				A
7A				▼.
VA.				A '
7A				▼.
LV .				A '
7A				▼.
LV.				A '
7A				Ψ.
AV FA			Activate Wind Go to PC settings	



```
AV
                                                       AV
VA.
                                                       YA
AV
                                                      AV
VA
                                                      VA.
                                                      AV
AV
  What do you wish to edit in here?
                                                      YA
VA.
AV
                                                      AV
   1. Name
VA.
                                                      YA
   2. Class
AV
                                                      AV
   3. Club Name
\nabla A
                                                      VA.
AV
                                                      AT
VA.
  Enter your choice here : 1_
                                                      VA.
AV
                                                      AV
VA
                                                      VA.
                                                      AV
AV
TA
                                                      YA
AV
                                                      AV
VA
                                                      YA
AV
                                                      AV
WA
                                                      YA
AT
                                                      AV
                                             Go to PC settings to activate Wi
VA.
```

```
AV
                                                     AV
VA.
                                                     YA
AV
                                                     AV
AV
   Enter the new name : Shourish
                                                     AV
VA.
                                                     YA
                                                     AV
AV
VA.
                                                    VA
  Name changed successfully!!_
AV
                                                     AV
YA
                                                     YA
AV
                                                    AV
                                                     VA
VA.
AT
                                                     AV
VA.
                                                     TA
AV
                                                     AV
VA
                                                     YA
                                                     AV
AV
VA
                                                     VA.
AV
                                                     AV
VA.
                                                    YA
AT
                                                    AV
                                           Activate Windows
                                           Go to PC settings to activate Wi
YA
```



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