#include
<iostream>

```
#include <conio.h>
#include <string.h>
#include <math.h>
#include <stdio.h>
using namespace std;
char* SHOW_STATUS(int i)
{
       switch (i)
           case 0: return "";
       case 1: return "not out";
       case 2: return "bold out";
       case 3: return "caught out";
       case 4: return "run out";
       default: return "unknown";
    return "unknown";
}
class Team
{
    char team_name[20];
    char p_name[12][20];
    int p_run[12];
    int p_status[12];
    int p_ball[12];
    int p_num;
    int Extra_run;
       public:
       Team();
       int Init(void);
       char* get_name(int i)
           {
                     return p_name[i];
              }
       int get_run(int i)
```

```
return p_run[i];
              }
       int get_status(int i)
                 return p_status[i];
              }
       int get_extra(void)
              {
                     return Extra_run;
              }
       int get_ball(int i)
              {
                     return p_ball[i];
              }
       char* get_t_name()
              {
                     return team_name;
              }
       int get_Total(void);
       void Add_Run(int player_num,int run);
       void Set_Status(int player,int status)
              {
                     p_status[player]=status;
              };
       void Set_Out(int out_player,int type,int new_player);
       void Set_Ball(int player)
              {
                     p_ball[player]++;
       void Set_Extra(int run)
                     Extra_run+=run;
              };
};
/**** Default Contructor*******/
Team::Team()
{
```

{

```
for(int i=1; i<=12;i++)
       {
               strcpy(p_name[i],"Player");
               p_run[i]=0;
               p_status[i]=0;
               p_ball[i]=0;
       }
       strcpy(team_name,"INDIA");
       Extra_run=0;
       p_num=0;
}
/**** Initialize Team******/
int Team::Init(void)
{
       cout<<"Enter Team Name: ";</pre>
       cin>>team_name;
       cout<<"No of players of the team: ";</pre>
       cin>>p_num;
       cout<<"Enter Name of the Players.....\n";</pre>
       for(int i=1;i<=p_num;i++)</pre>
       {
           cout<<"
                                      Player"<<i<<": ";
           cin>>p_name[i];
           cout<<"\n\n";</pre>
           p_run[i]=0;
           p_status[i]=0;
       return p_num;
}
void Team::Add_Run(int player_num,int run)
{
       p_run[player_num] += run;
       get_Total();
}
```

```
/***** Calculate & Get Total Run ****/
int Team::get_Total()
{
       int local_total=0;
       for(int i=1;i<=p_num;i++)</pre>
       local_total += p_run[i];
                                          //Players Score
              local_total += Extra_run;
                                                    //Add Extra
       return local_total;
}
void Team::Set_Out(int out_player,int type,int new_player)
{
       p_status[out_player]=type;
                                               //Current Player out
       p_status[new_player]=1;
                                               //New Player Not out
}
/*********my score********/
class myscore
{
    int player1;
    int player2;
    int Ball_count;
    int Over;
    int Max_Over;
    int Out;
    int Max_out;
    Team team1;
    int extra;
       public:
       myscore();
       void show(void);
       void ch(void);
       void dot_ball(void);
```

void add_run(void);

```
void wicket(void);
       void extra1(void);
       void over_complete(void);
};
myscore::myscore()
{
       player1=0;
       player2=0;
       extra=0;
       Over=0;
       Out=0;
       Max_out=10;
       Ball_count=0;
       Max_out=team1.Init();
                                                            // Initiali
       cout<<"\nEnter no of Overs in one Innings: ";</pre>
       cin>>Max_Over;
       cout<<"\n\nChoose opening Batsman(1-11):";</pre>
       while(1)
       {
       cout << " \setminus n
                                        batsman 1:";
                                                            //Chose
       cin>>player1;
                                                              //Opening
       team1.Set_Status(player1,1);
                                                              //Batsman
       cout<<"
                                        batsman 2:";
       cin>>player2;
       team1.Set_Status(player2,1);
       if(player1>11 || player2>11 || player1==player2)
               cout<<"Invalid Entry Try Again!!";</pre>
       else
                       break;
    }
}
/***** Showing Entire Score *******/
void myscore::show(void)
{
```

```
"<<team1.get_t_name()<<" Score</pre>
       cout<<"
       cout<<"///////////"<<
       for(int i=1;i<=Max_out;i++)</pre>
    {
                                                              ";
       cout<<team1.get_name(i)<<"</pre>
       cout<<SHOW_STATUS(team1.get_status(i))<<"</pre>
       cout<<team1.get_run(i);</pre>
       if(team1.get_status(i))cout<<"("<<team1.get_ball(i)<<")";</pre>
       cout<<endl;
       }
       cout<<"\nExtra";</pre>
       cout<<"\t"<<team1.get_extra()<<endl<<endl;</pre>
       cout<<"\n\n-----
       cout<<"Over "<<Over<<"."<<Ball_count<<" Wicket "<<Out;</pre>
       cout<<" || total score: ";</pre>
       cout<<team1.get_Total()<<endl;</pre>
    if(Ball_count<=6*Max_Over)</pre>
       ch();
       }
}
void myscore::ch()
       cout<<"\nChoose option:\n";</pre>
                                                       //Options for
       cout<<"\n\tDot Ball[1]||";</pre>
                                                        //Updating
       cout<<"\n\tAdd Run[2]||";</pre>
                                                       //Score Card
       cout<<"\n\tExtra[3]||";</pre>
       cout<<"\n\tWicket[4]||";</pre>
       cout<<"\n\tExit[10]\n";</pre>
       cout<<"\t\t\t...;
       int option;
       cin>>option;
       switch (option)
```

```
{
       case 1:
                      dot_ball();
                      break;
       case 2:
                  add_run();
                      break;
       case 3:
                  extra1();
                     break;
       case 4:
                  wicket();
                      break;
       case 10:
                      return;
       default:
                      cout<<"\nInvalid input\n";</pre>
              getch();
              dot_ball();
    }
}
/***** One Dot Ball *****/
void myscore::dot_ball(void)
{
       cout<<"\n\n********\n";
       cout<<"
                           Dot Ball
                                                  \n";
       cout<<"*********\n\n";
       Ball_count++;
       team1.Set_Ball(player1);
       if(Ball_count==6)
       {
              over_complete();
              return;
       }
       getch();
       show();
```

```
}
/***** Add Extra Run ******/
void myscore::extra1(void)
{
       cout<<"\n\n********\n";
       cout<<"
                                                  \n";
                           Extra Run
       cout<<"*********\n\n";
       cout<<"Extra?";</pre>
       cin>>extra;
       team1.Set_Extra(extra);
       show();
}
/***** Add Current Player Run******/
void myscore::add_run(void)
{
       cout<<"\n\n********\n";
       cout<<"
                                                \n";
                           Add Run
       cout<<"********\n\n";
       cout<<"Runs? ";</pre>
       int runs;
       Ball_count++;
       team1.Set_Ball(player1);
       cin>>runs;
       team1.Add_Run(player1,runs);
       if(runs==1||runs==3)
           int temp = player1;
           player1=player2;
           player2=temp;
       }
       if(Ball_count==6)
       {
```

```
over_complete();
             return;
      }
       show();
}
/***** Over Complete *******/
void myscore::over_complete(void)
      cout<<"\n\n********\n";
       cout<<"
                        Over Complete\n";
      cout<<"*********\n";
      Over++;
      Ball_count=0;
       int temp = player1;
      player1=player2;
       player2=temp;
      if(Over==Max_Over)
             cout<<"\n\n*********\n";
             cout<<"
                               Innings Complete\n";
             cout<<"*********\n";
             show();
             getch();
             return;
      }
      else
       {
             getch();
             show();
      }
}
/****** Wicket Fallen ******/
```

```
{
       int o_type,new_player;
       cout<<"\n\n*********\n";
       cout<<"
                         Wicket\n";
       cout<<"*********\n";
       cout<<"\nOut type? (Bold-1:Caught-2:Run_out:3).....";</pre>
       cin>>o_type;
       Out++;
       Ball_count++;
       team1.Set_Ball(player1);
       if(Out>=Max_out)
       {
              cout<<"\n\n*********\n";
              cout<<"
                                Innings Complete\n";
              cout<<"*********\n";
              show();
              team1.Set_Status(player1,o_type+1);
              getch();
              return;
       }
       cout<<"\nNew Batsmans no: ";</pre>
       cin>>new_player;
       team1.Set_Out(player1,o_type+1,new_player);
       player1=new_player;
       if(Ball_count==6)
              over_complete();
              return;
       }
       getch();
       show();
}
int main(void)
{
```

void myscore::wicket(void)

```
myscore MS;
MS.show();
}
```