

# **ALGORITHM**

Class name : player  
Data members : pname, department, age, jno, matches, runs, inn, outs, bavg, nballs, economy, sr, avg, overs, wickets, bruns, bsr.  
Member functions: cprofile(), showprofile(), getjno(), modifypro(), caverage() , cstrikerate(), ceconomy(), bowlingsr(), baverage().  
Object used :p1

---

Function Name : cprofile()  
Parameters passed : nil  
Return type :nil  
To add a player profile.

---

Function name : showprofile()  
Parameters passed :nil  
Return type :nil  
To display the profile of a added player.

---

Function name : getjno()  
Parameters passed : nil  
Return type : int  
To return Jersey number.

---

Function name : modifypro()  
Parameters passed : char \*ch  
Return type : nil  
To modify profile details of a player.

---

Function name : caverage()

Parameters passed : nil  
Return type : nil  
To calculate the batting average of the player.

---

Function name : cstrikerate()  
Parameters passed : nil  
Return type : nil  
To calculate the batting strikerate of the player.

---

Function name : ceconomy()  
Parameters passed : nil  
Return type : nil  
To calculate the bowling economy of a player.

---

Function name : bowlingsr()  
Parameters passed : nil  
Return type : nil  
To calculate the bowling strike rate of a player.

---

Function name : baverage()  
Parameters passed : nil  
Return type : nil  
To calculate the bowling average of a player.

---

Function name : writeprofile()  
Parameters passed : nil  
Return type : nil  
To write player data into the file .

---

Function name : specidisplay()  
Parameters passed : nil  
Return type : nil  
To display the player profile from the file.

---

Function name : modifyprofile()

Parameters passed : nil

Return type : nil

To modify a player profile.

---

Function name : deleteprofile()

Parameters passed : nil

Return type : nil

To delete a player profile from the file.

---

Function name : intro()

Parameters passed : nil

Return type : nil

---

Function name : menu()

Parameters passed : nil

Return type : nil

To display the choices offered.

---

Function name : main()

Parameters passed : nil

Return type : nil

Main module.

---

# ***SOURCE***

# ***CODE***

```

//*****
//          HEADER FILE USED IN PROJECT
//*****
#include<process.h>
#include<fstream.h>
#include<ctype.h>
#include<iomanip.h>
#include<conio.h>
#include<stdio.h>
#include<string.h>
#include<math.h>
//*****
//          CLASS USED IN PROJECT
//*****
class player
{
    char pname[30];
    char department[30];
    int age;
    int jno;
    double matches;
    double runs;
    double inn;
    double outs,bavg;
    double nballs;
    double  economy,sr,avg,overs;
    double  wickets,bruns;
    double bsr;
    public:
        void cprofile()
    {
        cout<<"\n_____";
        cout<<"\n ENTER NAME OF PLAYER:";
        gets(pname);
        cout<<"\n ENTER DEPARTMENT:";
        gets(department);
        cout<<"\n Enter jersey number:";
        cin>>jno;
        cout<<"\n ENTER AGE OF PLAYER:";
        cin>>age;
        cout<<"\n Enter no of matches:";
        cin>>matches;
        cout<<"\n ENTER NO OF RUNS SCORED:";
    }
}

```

```

cin>>runs;
cout<<"\n ENTER NO OF INNINGS:";
cin>>inn;
cout<<"\n ENTER NO OF TIMES PLAYER GOT OUT:";
cin>>outs;
cout<<"\n Enter no of balls faced:";
cin>>nballs;
cout<<"\n ENter no of overs bowled by bowler:";
cin>>overs;
cout<<"\n Enter wickets taken by player:";
cin>>wickets;
cout<<"\n Runs left by player:";
cin>>bruns;
cout<<"_____";
}
void showprofile()
{
cout<<"\n_____";
cout<<"\n NAME OF PLAYER:";
puts(pname);
cout<<"\n DEPARTMENT:";
puts(department);
cout<<"\n JERSEY NUMBER OF PLAYER:";
cout<<jno;
cout<<"\n AGE OF PLAYER:";
cout<<age;
cout<<"\n no of matches:";
cout<<matches;
cout<<"\n NO OF RUNS SCORED:";
cout<<runs;
cout<<"\n NO OF INNINGS:";
cout<<inn;
cout<<"\n NO OF TIMES PLAYER GOT OUT:";
cout<<outs;
cout<<"\n NO of balls faced:";
cout<<nballs;
cout<<"\n no of overs bowled by bowler:";
cout<<overs;
cout<<"\n wickets taken by player:";
cout<<wickets;
cout<<"\n Runs left by player:";
cout<<bruns;
cout<<"\n_____";
}
int getjno()

```

```
{
return jno;
}
void modifypro(char *ch)
{ cout<<"\n";
if(strcmpi(ch,"name")==0)
{
cout<<"\n ENTER NAME OF PLAYER:";
gets(pname);
}
else if(strcmpi(ch,"department")==0)
{
cout<<"\n ENTER DEPARTMENT:";
gets(department);
}
else if(strcmpi(ch,"age")==0)
{
cout<<"\n ENTER AGE OF PLAYER:";
cin>>age;
}
else if(strcmpi(ch,"matches")==0)
{
cout<<"\n ENter no of matches:";
cin>>matches;
}
else if(strcmpi(ch,"runs")==0)
{
cout<<"\n ENTER NO OF RUNS SCORED:";
cin>>runs;
}
else if(strcmpi(ch,"innings")==0)
{
cout<<"\n ENTER NO OF INNINGS:";
cin>>inn;
}
else if(strcmpi(ch,"out")==0)
{
cout<<"\n ENTER NO OF TIMES PLAYER GOT OUT:";
cin>>outs;
}
else if(strcmpi(ch,"balls")==0)
{
cout<<"\n Enter no of balls faced:";
cin>>nballs;
}
```

```

else if(strcmpi(ch,"over")==0)
{
cout<<"\n ENter no of overs bowled by bowler:";
cin>>overs;
}
else if(strcmpi(ch,"wickets")==0)
{
cout<<"\n Enter wickets taken by player:";
cin>>wickets;
}
else
{
cout<<"\n Runs left by player:";
cin>>bruns;
}
}

void caverage()
{
avg=(runs)/outs;
cout<<"\n Average of player:"<<avg;
}
void cstrikerate()
{
sr=(runs*100)/nballs;
cout<<"\n STRIKE RATE OF THE PLAYER:"<<sr;
}
void ceconomy()
{
economy=bruns/overs;
cout<<"\n ECONOMY OF THE PLAYER:"<<economy;
}
void bowlingsr()
{
bsr=(overs*6)/wickets;
cout<<"\n Bowling strike rate of player:"<<bsr;
}
void baverage()
{
bavg=bruns/wickets;
cout<<"\n BOWLING AVERAGE OF THE PLAYER:"<<bavg;
}
};
// *****
//      global declaration for object

```



```

//*****
player p1;
//*****
//    function to write in file
//*****
void writeprofile()
{clrscr();
  ofstream fout("player1.dat",ios::binary|ios::app);
  p1.cprofile();
  fout.write((char*)&p1,sizeof(p1));
  fout.close();
}
//*****
//    function to read specific record from file
//*****
void specidisplay()
{
  player p1;
  int found=0,n;
  ifstream fin("player1.dat",ios::in);
  cout<<"\n ENTER JERSEY NUMBER OF THE PLAYER: ";cin>>n;
  while(fin.read((char*)&p1,sizeof(p1)))
  {
    if(p1.getjno()==n)
    {
      clrscr();
      p1.showprofile();
      p1.caverage();
      p1.cstrikerate();
      p1.ceconomy();
      p1.bowlingsr();
      p1.baverage();
      found=1;
    }
  }

  if(found==0)
  {
    cout<<"\n PLAYER DOES NOT EXIST:";
  }
}
//*****
//    function to modify record of file
//*****
void modifyprofile()

```

```

{
clrscr();
char *ch;
int n,temp=0;
cout<<"\n ENTER THE PLAYER JERSEY NUMBER:";cin>>n;
ifstream fin("player1.dat",ios::binary|ios::in);
ofstream fout("playertemp.dat",ios::binary|ios::app);
while(fin.read((char*)&p1,sizeof(p1)))
{
if(p1.getjno()==n)
{ cout<<"\n ENTER THE AREA TO BE CHANGED:";
gets(ch);
cout<<"\n ENTER NEW DETAILS:";
p1.modifypro(ch);
fout.write((char*)&p1,sizeof(p1));
cout<<"\n RECORD MODIFIED!!!!!!";
temp=1;
}
else
{
fout.write((char*)&p1,sizeof(p1));
}
}
}
fin.close();
fout.close();
remove("player1.dat");
rename("playertemp.dat","player1.dat");
if(temp==0)
cout<<"\n NO RECORDS ARE CREATED";
}

```

```

//*****
//          function to delete record of file
//*****
void deleteprofile()
{
clrscr();
ifstream fin("player1.dat",ios::binary|ios::in);
ofstream fout("playertemp.dat",ios::binary|ios::app);
int n,temp=0;
cout<<"\n ENTER JERSEY NO OF THE PLAYER:";cin>>n;

```

```

while(fin.read((char*)&p1,sizeof(p1)))
{
    if(p1.getjno()==n)
    {
        cout<<"\n RECORD DELETED!!!";
        temp=1;
    }
    else
    {
        fout.write((char*)&p1,sizeof(p1));
    }
}
fin.close();
fout.close();
remove("player1.dat");
rename("playertemp.dat","player1.dat");
if(temp==0)
    cout<<"\n NO RECORDS ARE CREATED!!!!!!!!!!!!!!";
}
//*****
//          INTRODUCTION FUNCTION
//*****
void intro()
{
    cout<<"\n          PLAYER PROFILE MANAGEMENT SYSTEM";
    cout<<"\n\n          MADE BY:";
    cout<<"\n\n          PRADEEP.K.V";
    cout<<"\n          T.JEGADEESHWARAN";
    getch();
}

//*****
//          MENU FUNCTION
//*****
void menu()
{ char ch,c='y';
  int n;
  clrscr();
  intro();
  do
  { clrscr();
    cout<<"\n MAIN MENU:";
    cout<<"\n 1.CREATE NEW PROFILE:";

```

```

cout<<"\n 2.DISPLAY PROFILE OF CERTAIN PLAYER:";
cout<<"\n 3.MODIFY ALL PLAYER PROFILES:";
cout<<"\n 4.CLOSE A PLAYER PROFILE:";
cout<<"\n 5.EXIT:";
cout<<"\n SELECT YOUR OPTION(1-5):";
cin>>ch;
clrscr();
switch(ch)
{
    case '1':writeprofile() ;
        break;
    case '2':specidisplay();
        break;
    case '3':modifyprofile();
        break;
    case '4':deleteprofile();
        break;
    case '5':exit(0);

    default:cout<<"\n*****";
}
cout<<"\n DO YOU WANT TO CONTINUE:";
cin>>c;
}while((c=='y') || (c=='Y'));

}

```

```

//*****
//          MAIN FUNCTION OF THE PROGRAM
//*****

void main()
{
textbackground(BLACK);
textcolor(WHITE);
clrscr();

menu();
getch();
}

```



# ***SCREEN SHOTS***

PLAYER PROFILE MANAGEMENT SYSTEM

MADE BY:

PRADEEP . K . U  
T . JEGADEESHWARAN

```
MAIN MENU:
1.CREATE NEW PROFILE:
2.DISPLAY PROFILE OF CERTAIN PLAYER:
3.MODIFY ALL PLAYER PROFILES:
4.CLOSE A PLAYER PROFILE:
5.EXIT:
SELECT YOUR OPTION(1-5):1
```

```
ENTER NAME OF PLAYER:MSD
ENTER DEPARTMENT:WK,BATSMAN
Enter jersey number:10
ENTER AGE OF PLAYER:36
Enter no of matches:304
ENTER NO OF RUNS SCORED:264_
```

```
ENTER NO OF INNINGS:200
ENTER NO OF TIMES PLAYER GOT OUT:200
Enter no of balls faced:13000
Enter no of overs bowled by bowler:1
Enter wickets taken by player:1
Runs left by player:1
DO YOU WANT TO CONTINUE:Y
```

```
MAIN MENU:
1.CREATE NEW PROFILE:
2.DISPLAY PROFILE OF CERTAIN PLAYER:
3.MODIFY ALL PLAYER PROFILES:
4.CLOSE A PLAYER PROFILE:
5.EXIT:
SELECT YOUR OPTION(1-5):2
```

ENTER JERSEY NUMBER OF THE PLAYER: 10\_

NAME OF PLAYER:MSD

DEPARTMENT:WK,BATSMAN

JERSEY NUMBER OF PLAYER:10

AGE OF PLAYER:36

no of matches:304

NO OF RUNS SCORED:264

NO OF INNINGS:200

NO OF TIMES PLAYER GOT OUT:200

NO of balls faced:13000

no of overs bowled by bowler:1

wickets taken by player:1

Runs left by player:1

Average of player:1.32

STRIKE RATE OF THE PLAYER:2.030769

ECONOMY OF THE PLAYER:1

Bowling strike rate of player:6

BOWLING AVERAGE OF THE PLAYER:1

DO YOU WANT TO CONTINUE:Y\_

MAIN MENU:

1.CREATE NEW PROFILE:

2.DISPLAY PROFILE OF CERTAIN PLAYER:

3.MODIFY ALL PLAYER PROFILES:

4.CLOSE A PLAYER PROFILE:

5.EXIT:

SELECT YOUR OPTION(1-5):3\_



ENTER THE PLAYER JERSEY NUMBER:10

ENTER THE AREA TO BE CHANGED:RUNS

ENTER NEW DETAILS:\_\_\_\_\_

ENTER NO OF RUNS SCORED:10000

RECORD MODIFIED!!!!!!

DO YOU WANT TO CONTINUE:Y

MAIN MENU:

1.CREATE NEW PROFILE:

2.DISPLAY PROFILE OF CERTAIN PLAYER:

3.MODIFY ALL PLAYER PROFILES:

4.CLOSE A PLAYER PROFILE:

5.EXIT:

SELECT YOUR OPTION(1-5):2

ENTER JERSEY NUMBER OF THE PLAYER: 10

NAME OF PLAYER:MSD

DEPARTMENT:WK,BATSMAN

JERSEY NUMBER OF PLAYER:10

AGE OF PLAYER:36

no of matches:304

NO OF RUNS SCORED:10000

NO OF INNINGS:200

NO OF TIMES PLAYER GOT OUT:200

NO of balls faced:13000

no of overs bowled by bowler:1

wickets taken by player:1

Runs left by player:1

Average of player:50

STRIKE RATE OF THE PLAYER:76.923077

ECONOMY OF THE PLAYER:1

Bowling strike rate of player:6

BOWLING AVERAGE OF THE PLAYER:1

DO YOU WANT TO CONTINUE:Y\_

MAIN MENU:

1.CREATE NEW PROFILE:

2.DISPLAY PROFILE OF CERTAIN PLAYER:

3.MODIFY ALL PLAYER PROFILES:

4.CLOSE A PLAYER PROFILE:

5.EXIT:

SELECT YOUR OPTION(1-5):4

ENTER JERSEY NO OF THE PLAYER:10

RECORD DELETED!!!

DO YOU WANT TO CONTINUE:Y\_

```
MAIN MENU:  
1.CREATE NEW PROFILE:  
2.DISPLAY PROFILE OF CERTAIN PLAYER:  
3.MODIFY ALL PLAYER PROFILES:  
4.CLOSE A PLAYER PROFILE:  
5.EXIT:  
SELECT YOUR OPTION(1-5):2
```

```
ENTER JERSEY NUMBER OF THE PLAYER: 10  
  
PLAYER DOES NOT EXIST:  
DO YOU WANT TO CONTINUE:Y
```

```
MAIN MENU:  
1.CREATE NEW PROFILE:  
2.DISPLAY PROFILE OF CERTAIN PLAYER:  
3.MODIFY ALL PLAYER PROFILES:  
4.CLOSE A PLAYER PROFILE:  
5.EXIT:  
SELECT YOUR OPTION(1-5):5
```