Criterion C: Development

The Mainclass has six case statements performing functions of (add, edit, printout, delete writetofile and read from file.

The program begins with a do while statement. The do while has been chosen so that the program will always go through the case statements once before evaluating repeat. This helps the user to decide at the end of the program if they will repeat or not. As, can be seen in the screenshot below, the repeat evaluates at the end of the program.

```
do{
    System.out.println("please enter in where you want to go 1. adding people 2. editing 3. printing out 4. deleting people 5. write to file 6.read frc
    answer= scan.nextInt();

System.out.println(" if you want to repeat 'yes' ");
    repeat = scan.nextLine();

while(repeat.equals("yes"));
```

Case 1: Performing the add function

Mainclass:

```
File Edit Source Refactor Navigate Search Project Run Window Help
Ouick Access
ø ② helloworld.java ② mycoolprjjava ② usersquares.... ② user.java ③ newprjjava ② Soccerpoints... ② clock.java ② mainclass.java ◎ ② Members.java ② Coach.java ② Player.java ③ 1 import java util Scanner.
       1 import java.util.Scanner;
2 public class mainclass {
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                                                        me, Coach to the program that will help you to input your team information");
                     do{
    System.out.println("please enter in where you want to go 1. adding people 2. editing 3. printing out 4. deleting people 5. write to file 6.read frc
                          Jackmouttp intain press enter in mere you mant to go I adding people 2. editing 3. printing out 4. deleting people 5. write to file 6.read fro
                     switch(answer){
                    case 1:
    System.out.println("would you like to add a player or a coach");
    scan.nextLine();
    coachrplayer= scan.nextLine();
    if(coachrplayer.equals("coach")){
        System.out.println("hello coach input all the coaches names and their jacketsize");
}
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                          cch.coachadd();
                          cch.coachname():
                          cch.coachassignjacksize();
                        cch.printout();
                     else if(coachrplayer.equals("player")){
                      System.out.println("hello coach, input all the players names, jerseysize, pantsize and jacketsize ");
System.out.println("you can only enter in up to 20 players");
ply.playernad();
ply.playername();
ply.playername();
ply.playernassignjersize();
ply.playerassignjacksize();
ply.playerassignjacksize();
ply.playerassignjacksize();
                        ply.playerassignpantsize();
                       ply.printout();
                           System.out.println("invalid input");
```

The user has a choice to either choose player or coach. The program then executes the respective if and else if statements.

If coach is chosen, then the methods are called from the Coach class

Coach class:

The main example of inheritance is the memb object array(seen below) which is used for both the Coach and Player when they are created in the mainclass. This was used so that a separate object array would not have to be created for Player and Coach. The coachadd() and coachassignjacksize() are called from the Members class which use inheritance. The coachname() method uses polymorphism, mutating the method assignname() in Members. Some methods were mutated because they needed to be specific to either coach or player (such as the printout method). This shows how OOP is used in the program.

Members class:

Case1: Sample output with two coaches

```
## Problems # Javadoc Declaration Console ## ## Problems ## Problems ## Javadoc Declaration Console ## ## Problems ## Probl
```

If player is chosen, then the methods are called from the Player class.

Player class:

```
private int newjernum;
                private String username;
private int plynamecurrent;
Scanner myscan = new Scanner(System.in);
               public void playeradd(){
                          super.addmember();
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                        public void playerassignjacksize(){
   super.assignjacksize();
                         public void playername()
                               for(int i =0; i<numof; i++){
   System.out.println("enter in the name of player " + (plynamecurrent+1));
   username = myscan.nextLine();
   memb[plynamecurrent].name(username);
   plynamecurrent = plynamecurrent+1;</pre>
                               }
                        public void printout()
{
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                                for(int i = 0; i<userinput; i++){
    System.out.println("The name of player " + (i+1) + '\t' + memb[i].getusername());
    System.out.println("the jerseynumber for player " + (i+1) + '\t' + "is " + memb[i].getjerseynum() );
    System.out.println("the jersey size of player " + (i+1) + '\t' + memb[i].getjersize());
    System.out.println("The jacket size of player " + (i+1) + '\t' + memb[i].getjersize());
    System.out.println("the jacket size of player " + (i+1) + '\t' + memb[i].getpriszize());</pre>
                                                                                                                                                                                                                                                                                                                Updates Available
                               }
                                                                                                                                                                                                                                                                                                                Updates are available for your software.
                        public void playerassignjersize() {
50°
51
                                super.assignjersize();
 52
53
54
55
56
57
                         public void plyjernum(){
   super.jerseynummemb();
                         public void playerassignpantsize(){
 58
59
                                                                                                                                                                                                                                                                                                                Updates Available
                                 super.assignpantsize();
                                                                                                                                                                                                                                                                                                                Updates are available for your software
```

Some methods are inherited from Members class, while some are modified in Player class. These were modified because they needed to be specific to Player(ex. printout, which prints other attributes like jerseynum or jersize different from Coach). Each method also has its own counter variable. This was chosen so that the counter for that method would only be used for the methods purpose(ex. jercurrent is for jersey size only).

Members class:

```
public void assignjersize()(
for(a e): incumor; i++){
for(a e): incumor
```

Case 1: sample output with two players

```
mainclass [Java Application] C\Program Files\Java\Jre1.8.0_121\bin\javaw.exe (Mar 18, 2018, 11:33:54 AM)
Welcome, Coach to the program that will help you to input your team information
please enter in where you want to go 1. adding people 2. editing 3. printing out 4. deleting people 5. write to file 6.read from file
 would you like to add a player or a coach
prayer
hello coach, input all the players names, jerseysize, pantsize and jacketsize
you can only enter in up to 20 players
how many people would you like to add
 enter in the name of player 2
 enter the jerseynumber for Cameron
 enter the jerseynumber for Jon
type 's' for small, 'm' for medium and 'l' for large
enter the jersize for Cameron
type 's' for small, 'm' for medium and 'l' for large enter the jersize for Jon
type 's' for small, 'm' for medium and 'l' for large enter in the jacket size for Cameron
type 's' for small, 'm' for medium and 'l' for large enter in the jacket size for Jon
type 's' for small, 'm' for medium and 'l' for large enter in the shortsize for Cameron
                                                                                                                                                                                                                                                                  Updates Available
                                                                                                                                                                                                                                                                   Updates are available for your software.
 type 's' for small, 'm' for medium and 'l' for large
                                                                                                                                                                                                                                                                   Click to review and install updates
 enter in the shortsize for Jon
The name of player 1 Cameron
the jerseynumber for player 1 is 12
the jersey size of player 1 s
The jacket size of player 1 m
the shortsize of player 1 m
the shortsize of player 1 m
The name of player 2 Jon
the jerseynumber for player 2 is 10
the jersey size of player 2 m
The jacket size of player 2 m
the shortsize of player 2 m
if you want to repeat 'yes'
                                                                                                                                                                                                                                                                  Updates Available
                                                                                                                                                                                                                                                                 Updates are available for your software.
```

Case 2: Performing the edit function

Mainclass:

The program has been designed here so that both conditions of editcchrply and userinput >0 have to be true in order for the program to continue with the if statements. The check for userinput is for the case that no coach or players have been entered. When there are no coach or players then the else statement will execute and tell the user to add people.

User chooses coach:

Coach class

The mutator methods called from the Persons class(seen below) makes it easier to change all the attributes of the object just by assignment. Which is why the use of accessor and mutator methods were adopted for the program. It makes it simpler to execute all the methods. The accessor gets the attribute from the object and the mutator assign a new value for the attribute(ex.jacksize). In Addition, boolean cchedit was adopted for the purpose of checking if the coachedit() runs successfully(same with Player class). The Boolean checks the execution of the method then, outputs a message based on the value of the Boolean outside the loop.

Persons Class

```
public void name(String name){
    thename = name;
> 🔑 loops
 myproject
                                                                           16
17"
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19
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21"
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23
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27"
30"
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33"
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> 🎤 oop
> 🔑 Soccerclub
                                                                                          public String getusername(){
    return thename;
}
                                                                                                                                                                                                                                                                               △ thename : String

    pantsize : char

                                                                                          public void jerseynumber(int jernum){
    jerseynum = jernum;

    jerseynum : int
    name(String) : void
    getusername() : String

                                                                                          public int getjerseynum(){
    return jerseynum;
                                                                                                                                                                                                                                                                               jerseynumber(int) :
                                                                                          public void jersize(char jersize){
   jerseysize = jersize;
                                                                                          public char getjersize(){
    return jerseysize;
                                                                                                                                                                                                                                                                               getjersize() : char.

    pantsize(char) : void

    jacksize(char) : void

                                                                                          public void pantsize(char pntsize){
    pantsize = pntsize;

    getjacksize() : char

                                                                                          public char getpntsize() {
    return pantsize;
                                                                                          public void jacksize(char jacksize) {
    jacketsize = jacksize;
                                                                                          public char getjacksize(){
   return jacketsize;
```

Case 2: Sample output with coach edit

```
please enter in where you want to go 1. adding people 2. editing 3. printing out 4. deleting people 5. write to file 6.read from file

2 you will be editing the database
who do you want to edit, a coach or player
coach
The name of Coach 1  Tom
The jacket size of Coach 1  m
The name of Coach 2  Tris
The jacket size of Coach 2  L
which person do you want to edit
Tris
found name
what would you like to change it to
Carl
Carl
what would you like to change the jacketsize to

5
dediting has finished
if you want to repeat 'yes'

Updates Available  

*
Updates are available for your software.
```

User chooses player

Player Class

Playeredit() functions in the same way as coachedit() but, the difference being the editing of the extra attributes of the Player object. The Boolean plyedit functions the same as in Coach class.

Case 2: Sample output with player edit

Case 3: Performing printout

Mainclass

The printout's purpose is to allow the user to see the present players and coaches. The benefit of the if statements is that the program will print by determining the value of userinput. This allows the program to avoid any errors and unwanted exceptions. The printout() uses accessor methods for each attribute of the object thus, making it simpler to use.

Coach Class

```
public void printout()

for( int i=0; i<userinput; i++){
    System.out.println("The name of Coach " + (i+1) + '\t' + memb[i].getusername());

System.out.println("The jacket size of Coach " + (i+1) + '\t' + memb[i].getjacksize());

yet

for( int i=0; i<userinput; i++){
    System.out.println("The jacket size of Coach " + (i+1) + '\t' + memb[i].getjacksize());

yet

for( int i=0; i<userinput; i++){
    System.out.println("The jacket size of Coach " + (i+1) + '\t' + memb[i].getjacksize());

yet

for( int i=0; i<userinput; i++){
    System.out.println("The jacket size of Coach " + (i+1) + '\t' + memb[i].getjacksize());

yet

for( int i=0; i<userinput; i++){
    System.out.println("The jacket size of Coach " + (i+1) + '\t' + memb[i].getjacksize());

yet

for( int i=0; i<userinput; i++){
    System.out.println("The jacket size of Coach " + (i+1) + '\t' + memb[i].getjacksize());

yet

for( int i=0; i<userinput; i++){
    System.out.println("The jacket size of Coach " + (i+1) + '\t' + memb[i].getjacksize());

yet

for( int i=0; i<userinput; i++){
    System.out.println("The jacket size of Coach " + (i+1) + '\t' + memb[i].getjacksize());

yet

for( int i=0; i<userinput; i++){
    System.out.println("The jacket size of Coach " + (i+1) + '\t' + memb[i].getjacksize());

yet

for( int i=0; i<userinput; i++){
    System.out.println("The jacket size of Coach " + (i+1) + '\t' + memb[i].getjacksize());

yet

for( int i=0; i<userinput; i++){
    System.out.println("The jacket size of Coach " + (i+1) + '\t' + memb[i].getjacksize());

yet

for( int i=0; i<userinput; i++){
    System.out.println("The jacket size of Coach " + (i+1) + '\t' + memb[i].getjacksize());

yet

for( int i=0; i<userinput; i++){
    System.out.println("The jacket size of Coach " + (i+1) + '\t' + memb[i].getjacksize());

yet

for( int i=0; i<userinput; i++){
    System.out.println("The jacket size of Coach " + (i+1) + '\t' + memb[i].getjacksize());

yet

for( int i=0; i<userinput; i++){
    System.out.println("The jacket size of Coach " + (i+1) + '\t' +
```

Player class

```
public void printout()

for(int i = 0; i<userinput; i++){

for(int i = 0; i<userinput; i++){

for(int i = 0; i<userinput; i++){

System.out.println("The name of player " + (i+1) + '\t' + memb[i].getusername());

System.out.println("the jerseynumber for player " + (i+1) + '\t' + memb[i].getjerseynum() );

System.out.println("the jersey size of player " + (i+1) + '\t' + memb[i].getjersize());

System.out.println("The jacket size of player " + (i+1) + '\t' + memb[i].getjacksize());

System.out.println(" the shortsize of player" + (i+1) + '\t' + memb[i].getpntsize());

System.out.println(" the shortsize of player" + (i+1) + '\t' + memb[i].getpntsize());

### Application of the println of the shortsize of player" + (i+1) + '\t' + memb[i].getpntsize());
```

The printout() Outputs have already been seen in other case statements

Case 4: Performing Delete

Mainclass

The if statements are designed in the same way as the edit case (i.e. evaluation of both deletecchrply and userinput).

User chooses coach:

Coach Class

```
newjacksize : char
> Soccerclub
                                                                                                                                                                                                                                                                                                                                 clic void delcoach(){
    String prevname;
    char prevjacksize;
    System.out.println("which person do you want to delete");
    delname= myscan.nextLine();
    for(int i = 0; icuserinput; i++){
        if(delname.equalsIgnoreCase(memb[i].getusername())){
            System.out.println("name fond");
            prevname = memb[userinput-1].getusername();
            memb[i].name(prevname);
            userinput = userinput-1;
            prevjacksize = memb[jackcurrent-1].getjacksize();
            memb[i].jacksize(prevjacksize);
            jackcurrent= jackcurrent-1;
            cchnamecurrent = cchnamecurrent-1;
            cchdel = true;
            recharacurrent-1;
            cchdel = true;
            recharacurrent-1;
            recharacurrent-1;

                                                                                                                                                                                                                                                                                                                public void delcoach(){
                                                                                                                                                                                                                                                                       70°
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         a cchedit hoolean
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           a cchdel : boolean
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         △ myscan : Scanner

    coachadd(): void

    coachassignjacksize()

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           coachname() : void
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             o printout() : voi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         coachedit(): void

    delcoach(): voice

                                                                                                                                                                                                                                                                                                                                                               cchdel = true;
}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         coachreadtofile(): void

    coachsendwritetofile():

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           · coachwritetofile(): void
                                                                                                                                                                                                                                                                                                                                                                System.out.println("deleting has finished");
                                                                                                                                                                                                                                                                                                                                                                  System.out.println("invalid input");
```

The same aspect of checking cchdel is used here as in the edit case. This checks if the delete has finished. In this case, accessor methods store the value of the last "member's" attribute and place it in the current position in the loop using mutator methods. Then, because there is duplicate value(last element) the object array is decremented by 1.

Case 4: sample output deleting "Tris"

```
please enter in where you want to go 1. adding people 2. editing 3. printing out 4. deleting people 5. write to file 6.read from file

4 you will be deleting elements in the database
who do you want to edit, a coach or player
coach
The name of Coach 1 Carl
The jacket size of Coach 1 s
The name of Coach 2 Tris
The jacket size of Coach 2 1
which person do you want to delete
Tris
hamme found
deleting has finished
if you want to repeat 'yes'
```

User chooses Player:

Player class

```
> 🀸 internetprogram
                                                                                                                                                                                                                    DERKAN . . B
                                                                                                                                                                                                          Player
askname: String
> 🎏 loops
                                                                                                                                                                                                                                            4 54 4 28 D
 > 🔗 myproject
> & oop
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132
 > 🏁 Soccerclub

    newjersize : char

                                                                                                                                                                                                                  newjacksize : char
                                                                                                                                                                                                                 newpntsize : char
                                                                                                                                                                                                                 a delname : String
                                                                                                                                                                                                                 a plyedit : boolean

    plydel : boolean

                                                                                                                                                                                                                    newjernum : int
                                                                                                                                                                                                                 * username : String

    plynamecurrent : int

                                                                                                                                                                                                                 myscan : Scanner

    playeradd(): void

    playerassignjacksize()

                                                                                                                                                                                                                 playername() : void
                                                                                                                                                                                                                 • printout() : void

    playerassignjersize() : 1

                                                                                                                                                                                                                 plyjernum(): void

    playerassignpantsize() :

    playeredit(): void

                                                                                                                                                                                                                 delplayer(): void
                                                                       if(plydel){
    System.out.println("deleting has finished");

    playerreadtofile(): void
    plysendwritetofile(): vo

                                                                        }
else{
    System.out.println("invalid input");

    plywritetofile(): void
```

Deleting Player mimics Coach but with the extra attributes.

Case 4: sample output deleting "Cameron"

```
please enter in where you want to go 1. adding people 2. editing 3. printing out 4. deleting people 5. write to file 6.read from file 4 you will be deleting elements in the database who do you want to edit, a coach or player player

The name of player 1 Cameron
the jerseynumber for player 1 is 12
the jersey size of player 1 s
The jacket size of player 1 m
The name of player 2 Barron
the jerseynumber for player 2 is 10
the jerseysunder for player 2 is 10
the jerseys size of player 2 s
The jacket size of player 3 s
the shortsize of player 2 s
which person do you want to delete
Cameron
hame found
deleting has finished
if you want to repeat 'yes'
```

Case 5: Performing write to file

Mainclass:

The if statements evaluate only when userinput is greater than zero for either player or coach or both. This ensures that there are not any exceptions caught when running the program and is beneficial since the program will know if coaches or players are entered. Also, here there are two files created each for player and coach. One file is for sending off to companies, while the other is for reading back into the program. This was done so that a more formal presentation can be given on the file sent off to companies and the other can be generic and used for reading purposes.

If cch.userinput>0

Coach class

```
PERKYON
> Minternetprogram
                                                                                      public void coachsendwritetofile(){
    PrintWriter outputStream = null;
                                                                        126
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                                                                                                                                                                                                                                                       ♥ Ø Coach
                                                                                                                                                                                                                                                               askname : String
 myproject
                                                                                                   outputStream = new PrintWriter(new FileOutputStream("Coachsend.txt"));

    newjacksize : char

                                                                                               catch (FileNotFoundException e)
                                                                                                  System.out.println("Error oping the file");
System.exit(0);

    cchnamecurrent : int

                                                                                                                                                                                                                                                              = cchedit : boolear
                                                                                             System.out.println("Writing to file");
outputStream.println("there are " + userinput + " coaches");
                                                                                                                                                                                                                                                              a myscan : Scanne
                                                                                             outputStream.println("there are " + for(int j = 0; j<userinput; j=j+1)

    coachassignjacksize()

    coachname(): void

                                                                                                   outputStream.println("name:" + memb[j].getusername());
outputStream.println("jacketsize:" + memb[j].getjacksize());
                                                                                                                                                                                                                                                              • printout() : void
• coachedit() : void
                                                                                             }
outputStream.println("the end");
outputStream.close();
System.out.println("Written to file");
                                                                                                                                                                                                                                                              coachreadtofile(): void

    coachwritetofile(): void

    cchnamecurrent : int

                                                                                                                                                                                                                                                               cchedit : boolean
                                                                                                                                                                                                                                                                cchdel : boolean
                                                                                                  outputStream = new PrintWriter(new FileOutputStream("Coachread.txt"));
                                                                                                                                                                                                                                                               myscan : Scanner
coachadd() : void
                                                                                              atch (FileNotFoundException e)
                                                                                                  System.out.println("Error opening the file");
System.exit(0);
                                                                                            }
System.out.println("Writing to file");
outputStream.println(userinput);
for(int j = 0; jkuserinput; j=j+1)
                                                                                                   outputStream.println( memb[j].getusername());
outputStream.println( memb[j].getjacksize());
                                                                                            }
outputStream.println("the end");
outputStream.close();
System.out.println("Written to file");
```

The try and catch method is used so that the program will catch the error and an error message is printed out. But, if the file opens successfully then all the attributes of the Player and Coach objects are written to file.

Sample files with coaches

If ply.userinput>0

Player class

```
170 public void plysendwritetofile(){
171 PrintWriter outputStream = null;
172 try
> 💕 myproject
                                                                              171
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182
                                                                                                                                                                                                                                                                                newname : String
                                                                                                                                                                                                                                                                                                                   . .
> 8º oop

    newjersize : char

> & Soccerclub
                                                                                                   outputStream = new PrintWriter(new FileOutputStream("Playersend.txt"));
                                                                                                                                                                                                                                                                                newpntsize : char
                                                                                              catch (FileNotFoundException e)
                                                                                                                                                                                                                                                                                delname : String

    plyedit : boolean

                                                                                                   System.out.println("Error oping the file");
System.exit(0);
                                                                                                                                                                                                                                                                                plydel : boolean
                                                                                             }
System.out.println("Writing to file");
outputStream.println("there are " + userinput + " players");
for(int j = 0; jkuserinput; j=j+1)
                                                                                                                                                                                                                                                                                = username : String
                                                                                                                                                                                                                                                                                plynamecurrent : int
                                                                             183
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192
193
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197 }
                                                                                                                                                                                                                                                                                myscan : Scanner
                                                                                                                                                                                                                                                                                playeradd(): void
                                                                                                    outputStream.println("name:" + memb[j].getusername());
outputStream.println("jerseynumber: " + memb[j].getjerseynum());
outputStream.println("jerseysize: + memb[j].getjersize());
outputStream.println("jacketsize:" + memb[j].getjacksize());
outputStream.println("shortsize:" + memb[j].getjacksize());

    playerassignjacksize() :

    playername(): void

                                                                                                                                                                                                                                                                                 • printout() : void

    playerassignjersize() : vi

                                                                                                                                                                                                                                                                                plyjernum(): void
                                                                                                                                                                                                                                                                                playerassignpantsize() :
                                                                                             }
outputStream.println("the end");
outputStream.close();
System.out.println("Written to file");
                                                                                                                                                                                                                                                                                playeredit() : void
                                                                                                                                                                                                                                                                                delplayer(): void
                                                                                                                                                                                                                                                                                playerreadtofile(): void

    plysendwritetofile() : vo

                                                                                                                                                                                                                                                                                     198 public void plywritetofile(){
199    PrintWriter outputStream = null;
200    try
🧦 🔑 оор

    newjersize : char

 > & Soccerclub
                                                                              200
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    newiacksize : char

                                                                                                                                                                                                                                                                                    newpntsize : char
                                                                                                   outputStream = new PrintWriter(new FileOutputStream("Playerread.txt"));

    delname : String

                                                                                              } catch (FileNotFoundException e)
                                                                                                                                                                                                                                                                                plyedit : boolean
                                                                                                                                                                                                                                                                                    plydel : boolean
                                                                                                    System.out.println("Error oping the file");

    newjernum : int

                                                                                             System.out.println("Writing to file");
outputStream.println( userinput );
for(int j = 0; j<userinput; j=j+1)</pre>
                                                                                                                                                                                                                                                                                plynamecurrent : int
                                                                                                                                                                                                                                                                                 myscan : Scanner
                                                                                                                                                                                                                                                                                playeradd() : void

    playerassignjacksize()

                                                                                                   outputStream.println(memb[j].getusername());
outputStream.println(memb[j].getjerseynum());
outputStream.println(memb[j].getjersize());
outputStream.println(memb[j].getjersize());
outputStream.println(memb[j].getpntsize());
                                                                                                                                                                                                                                                                                 playername() : void
                                                                                                                                                                                                                                                                                printout() : void

    playerassignjersize() : **

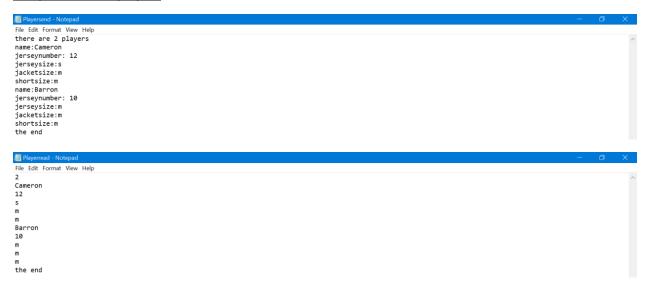
                                                                                                                                                                                                                                                                                plyjernum() : void

    playerassignpantsize()

                                                                                                                                                                                                                                                                                playeredit() : void
                                                                                             }
outputStream.println("the end");
                                                                                                                                                                                                                                                                                delplayer(): void
                                                                                             outputStream.close();
System.out.println("Written to file");
                                                                                                                                                                                                                                                                                playerreadtofile() : void

    plysendwritetofile() : vo
```

Sample files with players



Case 6: Performing read from file

Mainclass:

```
case 6:

System.out.println("you can read the data from the previous files you created Coac System.out.println("what do you want to choose a coach or a player");

scan.nextline();

userfilechoice = scan.nextline();

if (userfilechoice.equals("coach")) {

System.out.println("got it from coach");

cch.coachreadtofile();

}

else if (userfilechoice.equals("player")) {

System.out.println("got it from player");

ply.playerreadtofile();

}

break;
```

The read file evaluates based on whether the user wants to read from the coach file or the player file. Thus, there is importance of creating separate read files for both Coach and Player. Read file is beneficial because the user can return back to a previously written file and perform all the case statements (add, delete etc.) after reading from file.

User chooses coach:

Coach class:

```
public void coachreadtofile()

    delname : String

                                                                                                                                                                                                                                 " username : String
                                                                                    // Get data from txt file
Scanner inputStream = null;
                                                                 98
99
100
101
102
103
104
105
106
107
108
109
110
111
                                                                                                                                                                                                                                  cchnamecurrent : int

    cchdel : boolean

                                                                                         inputStream = new Scanner(new FileInputStream("Coachread.txt"));
                                                                                                                                                                                                                                  △ myscan : Scanner
                                                                                                                                                                                                                                 • coachadd(): void
                                                                                    catch(FileNotFoundException e)

    coachassignjacksize()

                                                                                         coachname(): void
                                                                                                                                                                                                                                 - printout() : void
                                                                                                                                                                                                                                 coachedit(): void
                                                                                    userinput = inputStream.nextInt();

    delcoach(): void

                                                                                    cchnamecurrent = userinput;
                                                                                   jackcurrent = userinput;
                                                                                                                                                                                                                                 coachreadtofile(): void

    coachsendwritetofile()

                                                                                   String empty = inputStream.nextLine();
int i = 0;
while (i<userinput &&i<max)</pre>
                                                                 113
114
115
116
117
118

    coachwritetofile(): void

                                                                                                     memb[i] = new Members();
memb[i].name(inputStream.nextLine());
memb[i].jacksize(inputStream.next().charAt(0));
empty = inputStream.nextLine();
                                                                119
120
121
122
123
124
                                                                                  System.out.println(userinput);
mainclass [Java Application] C\Program Files\Java\jre18.0_121\bin\javaw.exe (Mar 18, 2018, 6:29:17 PM)

Welcome, Coach to the program that will help you to input your team information
please enter in where you want to go 1. adding people 2. editing 3. printing out 4. deleting people 5. write to file 6.read from file
    you can read the data from the previous files you created Coachread.txt and Playerread.txt what do you want to choose a coach or a player
    got it from coach
      if you want to repeat 'yes'
     please enter in where you want to go 1. adding people 2. editing 3. printing out 4. deleting people 5. write to file 6.read from file
    The name of Coach 1 Car
The jacket size of Coach 1
The name of Coach 2 Tri
                                        Tris
     The jacket size of Coach 2
```

The example shows how after reading the file the program executes the printout(Case 3). The other case statements can also be executed based on the user's desires. Then, the new elements can be written back to file(Case 5) which rewrites all the files.

User chooses player:

Player class:

```
| 135 | 136 | 137 | 138 | 136 | 137 | 137 | 138 | 139 | 136 | 139 | 139 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      BRRVOWB
> 🀸 internetprogram
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ✓ ⑨ Player

• askname : String
> 🎤 loops
> 🔐 myproject
   Soccerclub
                                                                                                                                                                                                                                                                                                                                                       inputStream = new Scanner(new FileInputStream("Playerread.txt"));
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           newpntsize : char
                                                                                                                                                                                                                                                                                                                                    } catch(FileNotFoundException e)

    delname : String

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       plyedit : boolean
plydel : boolean
newjernum : int
                                                                                                                                                                                                                                                                                                                                                       System.out.println("file can not be found or not opened"); System.exit(\theta);
                                                                                                                                                                                                                                                                                                                                  system.ext(0);

userinput = inputStream.nextInt();
plynamecurrent = userinput;
jackcurrent = userinput;
jackcurrent = userinput;
pantcurrent = userinput;
jersaynumcurrent = userinput;
string empty = inputStream.nextLine();
int i = 0;
while (icuserinput &&icmax)

(memb[i] = new Members();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             username : String

    plynamecurrent : int

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         playerassignjacksize()
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             playername() : void
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             • printout() : void
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       playerassignjersize(): void
playerassignjersize(): void
playerassignpantsize():
                                                                                                                                                                                                                                                                                                                                                                                                             memb[i] = new Members();
memb[i].name(inputStream.mextLine());
memb[i].gresyonumber(inputStream.nextInt());
empty = inputStream.nextLine();
memb[i].gresize(inputStream.next().charAt(0));
memb[i].jacksize(inputStream.next().charAt(0));
memb[i].parsize(inputStream.next().charAt(0));
empty = inputStream.next().charAt(0));
empty = inputStream.nextLine();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             playeredit(): void

    delplayer(): void
    playerreadtofile(): void
    plysendwritetofile(): void
    plywritetofile(): void
```

```
Welcome, Coach to the program that will help you to input your team information
please enter in where you want to go 1. adding people 2. editing 3. printing out 4. deleting people 5. write to file 6.read from file

you can read the data from the previous files you created Coachread.txt and Playerread.txt
what do you want to choose a coach or a player
got it from player
if you want to repeat 'yes'
yes
please enter in where you want to go 1. adding people 2. editing 3. printing out 4. deleting people 5. write to file 6.read from file

The name of player 1 Cameron
the jerseynumber for player 1 is 12
the jersey size of player 1 m
The name of player 2 Barron
the shortsize of player 2 Barron
the jerseynumber for player 2 is 10
the jersey size of player 2 m
The jacket size of player 3 m
The jacket size of player
```

Word Count: 903