

Week-7

PlayerInher.java

```
import java.util.Scanner;
```

```
class player {
```

```
    private String name;
```

```
    private int matches_played;
```

```
    private double average;
```

```
    void setData()
```

```
{
```

```
    Scanner xx = new Scanner(System.in);
```

```
    System.out.println("Enter the name of the player");
```

```
    name = xx.next();
```

```
    xx.nextLine();
```

```
    System.out.println("Enter the number of matches played  
                        by the player : ");
```

```
    matches_played = xx.nextInt();
```

```
}
```

```
    void setAverage(double x)
```

```
{
```

```
        average = x;
```

```
}
```

```
    int returnMatchesPlayed()
```

```
{
```

```
        return matches_played;
```

```
}
```

```

void display average ()
{
    System.out.println("Enter the name of the student is: " + name);
    System.out.println("The average of the player is: " + average);
}
}

```

```

class batsman extends Player {
    private int runs_scored[];
    private int n;
    void setdata()
    {
        setdata();
        Scanner xx = new Scanner(System.in);
        n = return matches played();
        runs_scored = new int[n];
        System.out.println("Enter the runs scored:");
        for (int i = 0; i < n; i++)
        {
            System.out.println("Enter the runs scored in " + (i + 1) + " match:");
            runs_scored[i] = xx.nextInt();
        }
    }
}

```

```

void calculate average ()
{
    double temp = 0;

```

```
for(int i=0; i<n; i++)  
{
```

```
temp = temp + run_scored[i];  
}
```

```
temp = temp / return_matches_played();  
setaverage(temp);  
}  
}
```

```
class bowler extends Player {  
private int runs_scored[];  
private int n;  
void setdata()  
{
```

```
setdata()
```

```
{ Scanner xx = new Scanner(System.in);
```

```
n = return_matches_played();
```

```
runs_scored = new int[n];
```

```
System.out.println("Enter the runs given:");
```

```
for(int i=0; i<n; i++)  
{
```

```
System.out.println("Enter the runs given in '+(i+1)+' match:");
```

```
runs_scored[i] = xx.nextInt();
```

```
}
```

```
}
```

```
void calculateaverage()
```



```

{
    double temp = 0;
    for (int i = 0; i < n; i++)
    {
        temp = temp + runs_scored [i];
    }
    temp = temp / returnMatchesPlayed ();
    setAverage (temp);
}
}

```

```

public class playerInher {
    public static void main (String args []) {
        int n, m;
        Scanner xx = new Scanner (System.in);
        System.out.println ("Enter the number of batsman : ");
        n = xx.nextInt ();
        batsman p1 [] = new batsman [n];
        bowler p2 [] = new bowler [m];
        System.out.println ("Enter the details of the batsman : ");
        for (int i = 0; i < n; i++)
        {
            p1 [i] = new batsman ();
            p1 [i].setData ();
            p1 [i].calculateAverage ();
        }
    }
}

```

```
System.out.println("Enter the details of the bowlers:");
```

```
for (int i=0; i<m; i++)
```

```
{
```

```
    p2[i] = new bowler();
```

```
    p2[i].setdata();
```

```
    p2[i].calculateaverage();
```

```
}
```

```
System.out.println("The details of the batsman are:");
```

```
for (int i=0; i<n; i++)
```

```
{
```

```
    p1[i].displayaverage();
```

```
}
```

```
System.out.println("The details of the bowlers are:");
```

```
for (int i=0; i<m; i++)
```

```
{
```

```
    p2[i].displayaverage();
```

```
}
```

```
}
```

```
}
```

Inherit1.java

```
import java.util.Scanner;
class students
{
    String name;
    String usn;
    int sem;
}
class Test extends student
{
    int cte[];
    int credits[];
}
class Exam extends Test
{
    int see[];
    int i, n;
    void getdata()
    {
        Scanner s = new Scanner(System.in);
        System.out.println("enter name");
        name = s.next();
        System.out.println("Enter usn");
        usn = s.next();
    }
}
```

```
System.out.println("Enter number of subjects :");
n = s.nextInt();
for(i=0; i<n; i++)
{
    System.out.println("Enter cie marks in sub "+(i+1));
    cie[i] = s.nextInt();
    System.out.println("Enter credits in sub "+(i+1));
    Credits[i] = s.nextInt();
    System.out.println("Enter see marks in sub "+(i+1));
    See[i] = s.nextInt();
}
}
```

```
void display()
{
    System.out.println("Name: "+name);
    System.out.println("USN: "+usn);
    System.out.println("SEM: "+sem);
    for(i=0; i<n; i++)
    {
        System.out.println("Cie marks: "+cie[i]);
        System.out.println("Credits: "+credits[i]);
        System.out.println("SEEMarks: "+see[i]);
    }
}
}
```



```

class MarksInher
{
    public static void main (String [] args)
    {
        int i;
        Scanner s1 = new Scanner (System.in);
        System.out.println ("Enter number of students ");
        int m = s1.nextInt();
        Exam e [] = new Exam [m];
        System.out.println ("Enter the details of the students : ");
        for (i=0; i<m; i++)
        {
            System.out.println ("Enter the details of the " + (i+1) + " student");
            e[i] = new Exam();
            e[i].getData();
        }
        System.out.println ("The details of the students are : ");
        for (i=0; i<m; i++)
        {
            System.out.println ("The details of the " + (i+1) + " Student is: ");
            System.out.println (e[i]);
        }
    }
}

```