**NAME : MANGESH A. GHADWAJE**

**ROLL NO:24**

**BATCH : B2**

**COURSE: OOPs PRACTICAL**

**Assginment No. 7**

**Problem Statment:** Write a program in Java to create a player class. Inherit the classes Cricket\_player, Football\_player and Hockey\_player from player class. The objective of this assignment is to learn the concepts of inheritance in Java

**CODE:**

import java.util.\*;

class Player

{

    String name,type;

    int age;

    public Player(int age,String name,String type)

    {

        this.age=age;

        this.name=name;

        this.type=type;

    }

}

class CricketPlayer extends Player

{

    int runs;

    CricketPlayer(int age,String name,String type,int runs)

    {

        super(age,name,type);

        this.runs=runs;

        System.out.println("\nCricket---");

        System.out.println("Player name is:"+name);

        System.out.println("Player age is:"+age);

        System.out.println("Player type is:"+type);

        System.out.println("Runs scored by the Player:"+runs);

    }

}

class FootballPlayer extends Player

{

    int goal;

    FootballPlayer(int age,String name,String type,int goal)

    {

        super(age,name,type);

        this.goal=goal;

        System.out.println("\nFootball---");

        System.out.println("Player name is:"+name);

        System.out.println("Player age is:"+age);

        System.out.println("Player type is:"+type);

        System.out.println("Goals scored by the Player:"+goal);

    }

}

class HockeyPlayer extends Player

{

    int hg;

    HockeyPlayer(int age,String name,String type,int hg)

    {

        super(age,name,type);

        this.hg=hg;

        System.out.println("\nHockey---");

        System.out.println("Player name is:"+name);

        System.out.println("Player age is:"+age);

        System.out.println("Player type is:"+type);

        System.out.println("Goals scored by the Player:"+hg);

    }

}

public class assignment7

{

    public static void main(String args[])

    {

        Scanner sc=new Scanner(System.in);

        System.out.println("Enter the Name of the Cricket player:");

        String cname=sc.next();

        System.out.println("Enter the age of the player:");

        int cage=sc.nextInt();

        System.out.println("Enter the type of player:");

        String ctype=sc.next();

        System.out.println("Enter the runs scored by player:");

        int runs=sc.nextInt();

        System.out.println("Enter the Name of the Football player:");

        String fname=sc.next();

        System.out.println("Enter the age of the player:");

        int fage=sc.nextInt();

        System.out.println("Enter the type of player:");

        String ftype=sc.next();

        System.out.println("Enter the Goals scored by player:");

        int fgoals=sc.nextInt();

        System.out.println("Enter the Name of the Hockey player:");

        String hname=sc.next();

        System.out.println("Enter the age of the player:");

        int hage=sc.nextInt();

        System.out.println("Enter the type of player:");

        String htype=sc.next();

        System.out.println("Enter the Goals scored by player:");

        int hgoals=sc.nextInt();

        CricketPlayer p1=new CricketPlayer(cage,cname,ctype,runs);

        FootballPlayer p2=new FootballPlayer(fage,fname,ftype,fgoals);

        HockeyPlayer p3=new HockeyPlayer(hage,hname,htype,hgoals);

    }

}

**OUTPUT:**

Enter the Name of the Cricket player:

MANGESH

Enter the age of the player:

21

Enter the type of player:

BALLER

Enter the runs scored by player:

24

Enter the Name of the Football player:

SACHIN

Enter the age of the player:

21

Enter the type of player:

KIKKER

Enter the Goals scored by player:

5

Enter the Name of the Hockey player:

DARSHAN

Enter the age of the player:

21

Enter the type of player:

GOALKIPPER

Enter the Goals scored by player:

5

Cricket---

Player name is:MANGESH

Player age is:21

Player type is:BALLER

Runs scored by the Player:24

Football---

Player name is:SACHIN

Player age is:21

Player type is:KIKKER

Goals scored by the Player:5

Hockey---

Player name is:DARSHAN

Player age is:21

Player type is:GOALKIPPER

Goals scored by the Player:5