**2. WAJP to create a Player class. Inherit the classes Cricket \_Player, Football \_Player and Hockey\_ Player from Player class.**

**Source Code:**

class Player {

String[] Player\_Name = new String[10];

int[] Age = new int[10];

int count;

void Store\_Details(String name, int age) {

Player\_Name[count] = name;

Age[count] = age;

count++;

}

void ShowDetails() {

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

System.out.println("Player Name = " + Player\_Name[i]);

System.out.println("Player Age = " + Age[i]);

}

}

}

class Cricket\_Player extends Player {

String Country;

void Store\_Details(String name, int age, String country\_nm) {

super.Store\_Details(name, age);

Country = country\_nm;

}

void ShowDetails() {

System.out.println("\nPrinting Cricket\_Player Details\n");

super.ShowDetails();

System.out.println("Country = " + Country);

}

}

class Football\_Player extends Player {

String Country;

void Store\_Details(String name, int age, String country\_nm) {

super.Store\_Details(name, age);

Country = country\_nm;

}

void ShowDetails() {

System.out.println("\nPrinting Football\_Player Details\n");

super.ShowDetails();

System.out.println("Country = " + Country);

}

}

class Hockey\_Player extends Player {

String Country;

void Store\_Details(String name, int age, String country\_nm) {

super.Store\_Details(name, age);

Country = country\_nm;

}

void ShowDetails() {

System.out.println("\nPrinting Hockey\_Player Details\n");

super.ShowDetails();

System.out.println("Country = " + Country);

}

}

class test {

public static void main(String args[]) {

Cricket\_Player cp1 = new Cricket\_Player();

Football\_Player cp2 = new Football\_Player();

Hockey\_Player cp3 = new Hockey\_Player();

cp1.Store\_Details("Vinayak", 18, "India");

cp1.Store\_Details("Vishal", 19, "India");

cp1.Store\_Details("Shailesh", 20, "India");

cp2.Store\_Details("Yogendra", 18, "India");

cp2.Store\_Details("tarun", 19, "India");

cp2.Store\_Details("Kishor", 20, "India");

cp3.Store\_Details("Rohit", 18, "India");

cp3.Store\_Details("Nohit", 19, "India");

cp3.Store\_Details("oit", 20, "India");

cp1.ShowDetails();

cp2.ShowDetails();

cp3.ShowDetails();

}

}

**3. Define a class called Student. Store roll no. & name of the student. Define member functions to assign & display value of roll no. & name.**

**Source Code:**

class Student {

int Roll\_no;

String SName;

void StoreData(int Roll\_no, String SName) {

this.Roll\_no = Roll\_no;

this.SName = SName;

}

void DisplayData() {

System.out.println("\nDisplaying Record.... \n");

System.out.println("Roll No : " + Roll\_no);

System.out.println("Student Name : " + SName);

}

}

class test {

public static void main(String args[]) {

Student s1 = new Student();

s1.StoreData(772,"Vinayak");

s1.DisplayData();

}

}

**4. Create a method area (), overload it to calculate area of circle, rectangle and square.**

**Source Code:**

class Calc {

double area(double radius) {

return 3.14 \* radius \* radius;

}

double area(double lenth, double width) {

return lenth \* width;

}

double area(double side, boolean isSqure) {

return side \* side;

}

}

class test {

public static void main(String Args[]) {

Calc c1 = new Calc();

System.out.println("Area of Circle : " + c1.area(7.2));

System.out.println("Area of Rectangle : " + c1.area(7.2 \* 5.1));

System.out.println("Area of Square : " + c1.area(5.0,true));

}

}

**7. You are given a sting str =”SDJ International College”. Perform the following operation on it.**

 Find the length of string

 Replace the character ‘e’ by ‘E’

 convert all character in uppercase

**Source Code:**

class StringOperation {

int Findlength(String str) {

return str.length();

}

String CharReplace(String str, char oldchar, char newchar) {

return str.replace(oldchar,newchar);

}

String toUpper(String str) {

return str.toUpperCase();

}

}

class test {

public static void main(String Args[]) {

StringOperation s1 = new StringOperation();

String str = "SDJ International College";

System.out.println("The Length is : " + s1.Findlength(str));

System.out.println("The Length is : " + s1.CharReplace(str,'e','E'));

System.out.println("The Length is : " + s1.toUpper(str));

System.out.println("In Upper Case : " + s1.toUpper(str));

}

}