**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));
	}
}
```