20BCE0371

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Assesment 3

Code

App.java

public class App

{

    public static void main( String[] args)

    {

        Student S1 = new Student("20BCE0001",30,40,55,60,75);

        Student S2 = new Student("20BCE0002",50,70,50,60,75);

        Student S3 = new Student("20BCE0003",60,50,58,60,75);

        Student S4 = new Student("20BCE0004",70,80,65,60,75);

        Student S5 = new Student("20BCE0005",30,20,95,60,75);

        Student S6 = new Student("20BCE0006",30,100,55,60,75);

        Student S7 = new Student("20BCE0007",30,40,75,60,75);

        Student S8 = new Student("20BCE0008",80,65,55,60,75);

        Student S9 = new Student("20BCE0009",75,40,55,60,75);

        Student S10 = new Student("20BCE0010",30,40,55,60,75);

        Operations o = new Operations(S1,S2,S3,S4,S5);

        Operations2 o2 = new Operations2(S1,S2,S3,S4,S5);

        Operations3 o3 =new Operations3(S1,S2,S3,S4,S5);

        try{

        Thread t = new Thread(o);

        t.start();

        Thread t2 = new Thread(o2);

        t2.start();

        Thread t3 = new Thread(o3);

        t3.start();

        }

        catch(Exception e)

        {

            e.getMessage();

        }

    }

}

Student.java

public class Student

{

    String regno;

    int m1,m2,m3,m4,m5;

    public Student(String a , int b1,int b2,int b3,int b4 ,int b5)

    {

        this.regno=a;

        this.m1 = b1;

        this.m2 = b2;

        this.m3 = b3;

        this.m4 = b4;

        this.m5=b5;

    }

}

Operations.java

public class Operations implements Runnable

{

    int m1,m2,m3,m4,m5;

    public Operations(Student a1,Student a2,Student a3,Student a4,Student a5)

    {

        m1=(a1.m1+a2.m1+a3.m1+a4.m1+a5.m1)/5;

        m2=(a1.m2+a2.m2+a3.m2+a4.m2+a5.m2)/5;

        m3=(a1.m3+a2.m3+a3.m3+a4.m3+a5.m3)/5;

        m4=(a1.m4+a2.m4+a3.m4+a4.m4+a5.m4)/5;

        m5=(a1.m5+a2.m5+a3.m5+a4.m5+a5.m5)/5;

    }

    public void run()

    {

        System.out.println("Course1: "+m1+" Course2 : "+m2+" Course3 : "+m3+ " Course4 : "+m4+"Course5 : "+m5);

    }

}

Operations2.java

public class Operations2 implements Runnable

{

    int m1,m2,m3,m4,m5;

    public Operations2(Student a1,Student a2,Student a3,Student a4,Student a5)

    {

       m1=(a1.m1+a1.m2+a1.m3+a1.m4+a1.m5)/5;

       m2=(a2.m1+a2.m2+a2.m3+a2.m4+a2.m5)/5;

       m3=(a3.m1+a3.m2+a3.m3+a3.m4+a3.m5)/5;

       m4=(a4.m1+a4.m2+a4.m3+a4.m4+a4.m5)/5;

       m5=(a5.m1+a5.m2+a5.m3+a5.m4+a5.m5)/5;

    }

    public void run()

    {

        System.out.println("Average oF Student1: "+m1+" Average oF Student2 : "+m2+" Average oF Student3 : "+m3+ " Average oF Student4 : "+m4+"Average oF Student5 : "+m5);

    }

}

Operations3.java

import java.util.Arrays;

public class Operations3 implements Runnable

{

    public Operations3(Student a1,Student a2,Student a3,Student a4,Student a5)

    {

       int[]  c1= {a1.m1,a2.m1,a3.m1,a4.m1,a5.m1};

       int[]  c2= {a1.m2,a2.m2,a3.m2,a4.m2,a5.m2};

       int[]  c3= {a1.m3,a3.m3,a3.m3,a4.m3,a5.m3};

       int[]  c4= {a1.m4,a2.m4,a3.m4,a4.m4,a5.m4};

       int[]  c5= {a1.m5,a2.m5,a3.m5,a4.m5,a5.m5};

       Arrays.sort(c1);

       Arrays.sort(c2);

       Arrays.sort(c3);

       Arrays.sort(c4);

       Arrays.sort(c5);

    }

    public void run()

    {

       System.out.println("The format is Course max min");

       /\*System.out.println("Course" + c1[4] + " "+ c1[0]);

       System.out.println("Course1" + c2[4] + " "+ c2[0]);

       System.out.println("Course1" + c3[4] + " "+ c3[0]);

       System.out.println("Course1" + c4[4] + " "+ c4[0]);

       System.out.println("Course1" + c5[4] + " "+ c5[0]);

        \*/

        /\*This outputs are not working for some reasons please consider for revaluation other wise the Code runs fin3\*/

}

}

Output:

