TASK-08(A)-13N119

```
Point.java
package com;
public class Point {
      private int x;
      private int y;
      public double axis;
      public int getX() {
             return x;
      }
      public void setX(int x) {
             this.x = x;
      }
      public int getY() {
             return y;
      }
      public void setY(int y) {
             this.y = y;
      }
      public Point(int x, int y) {
             super();
             this.x = x;
             this.y = y;
      }
      public Point() {
             super();
             this.x = 0;
             this.y = 0;
      }
      public double distance() {
             return this.distance(0,0);
      }
      public double distance(int axis) {
             return this.distance(axis,axis);
      }
      public double distance(Point another) {
             return this.distance(another.x,another.y);
      }
      public double distance(int x,int y) {
             return Math.sqrt ((x-this.x) * (x-this.x) + (y-this.y) * (y-this.y));
```

```
}
      @Override
      public String toString() {
             return "Point is "+"(" + x + ","+ y +" ) ";
      }
}
Line.java
package com;
public class Line {
      private Point begin;
      private Point end;
      private Point[] point;
      //Point point = new Point();
      public Line(int x1, int x2, int y1, int y2) {
             super();
             this.begin = new Point(x1,y1);
             this.end = new Point(x2,y2);
      public Line(Point begin, Point end) {
             super();
             this.begin = begin;
             this.end = end;
      public Point getBegin() {
             return begin;
      }
      public void setBegin(Point begin) {
             this.begin = begin;
      public Point getEnd() {
             return end;
      public void setEnd(Point end) {
             this.end = end;
      }
      public Point[] getPoint() {
             return point;
      public void setPoint(Point[] point) {
             this.point = point;
      }
```

```
public int getBeginX(){
             return this.begin.getX();
      public void setBeginX(int x){
             this.begin.setX(x);
      }
      public int getBeginY(){
             return this.begin.getY();
      }
      public void setBeginY(int y){
             this.begin.setY(y);
      }
      public int getEndBeginX(){
             return end.getX();
      }
      public void setEndX(int x){
             this.end.setX(x);
      }
      public int getEndY(){
             return end.getY();
      }
      public void setEndY(int y){
             this.end.setY(y);
      }
      public double getLength() {
             return begin.distance(end);
      }
}
Solution.java
package org;
import com.Line;
import com.Point;
public class Solution {
      public static void main(String[] args) {
             // TODO Auto-generated method stub
             Point point[];
             point = new Point[2];
```

```
point[0] = new Point(3,5);
             point[1] = new Point(4,6);
             Line line = new Line(3,5,4,6);
             System.out.println(line.getLength());
      }
}
TASK-08(B)-13N119
Point.java
package pt;
public class Point {
      private int x;
      private int y;
      public Point(int x, int y) {
             super();
             this.x = x;
             this.y = y;
      public Point() {
             super();
      public int getX() {
             return x;
      }
      public void setX(int x) {
             this.x = x;
      public int getY() {
             return y;
      public void setY(int y) {
             this.y = y;
      }
      public String toString() {
             return "GIVEN POINT IS "+"(" + x + ","+ y;
      }
}
Point3D.java
package pt;
public class Point3D extends Point {
      private int z;
```

```
public Point3D() {
             super();
      }
      public Point3D(int x, int y, int z) {
             super(x, y);
             this.z = z;
      }
      public int getZ() {
             return z;
      }
      public void setZ(int z) {
             this.z = z;
      }
      @Override
      public String toString() {
             // TODO Auto-generated method stub
             return super.toString() +","+ z +")";
      }
}
Solution.java
package org;
import java.io.BufferedReader;
import java.io.InputStreamReader;
import java.io.IOException;
import pt.Point3D;
public class Solution {
      public static void main(String args[]) throws IOException {
      BufferedReader bf = new BufferedReader(new InputStreamReader(System.in));
      System.out.println("GIVE VALUE FOR X");
      int x = Integer.parseInt(bf.readLine());
      System.out.println("GIVE VALUE FOR X");
      int y = Integer.parseInt(bf.readLine());
      System.out.println("GIVE VALUE FOR X");
      int z = Integer.parseInt(bf.readLine());
      Point3D point = new Point3D(x,y,z);
      //String s = toString();
      System.out.println(point.toString());
      //return s;
}
```

OUTPUT

```
Problems @ Javadoc Declaration Console Stateminated Solution (3) [Java Application] C:\Program Files (x86 GIVE VALUE FOR X

GIVE VALUE FOR X

GIVE VALUE FOR X

GIVE VALUE FOR X

GIVEN POINT IS (2,3,5)
```

TASK-08(C)-13N119

```
Point.java
package pt;
public class Point {
      private int x;
      private int y;
      public int getX() {
             return x;
      }
      public void setX(int x) {
             this.x = x;
      }
      public int getY() {
             return y;
      }
      public void setY(int y) {
             this.y = y;
      }
      public Point(int x, int y) {
             super();
             this.x = x;
             this.y = y;
      }
      public Point() {
             super();
      }
```

```
public double distance(Point another) {
             return this.distance(another.x,another.y);
      }
      public double distance(int x,int y) {
             return Math.sqrt ((x-this.x) * (x-this.x) + (y-this.y) * (y-this.y));
      }
}
LineSub.java
package pt;
public class LineSub extends Point {
      private Point begin;
      private Point end;
      public LineSub(int begin, int end) {
             super(begin,end);
      }
      public LineSub(int x1,int x2,int y1,int y2) {
             super();
             begin = new Point(x1,y1);
             end = new Point(x2,y2);
      }
      public Point getBegin() {
             return begin;
      }
      public void setBegin(Point begin) {
             this.begin = begin;
      }
      public Point getEnd() {
             return end;
      }
      public void setEnd(Point end) {
             this.end = end;
      }
      public int getBeginX(){
             return this.begin.getX();
      public void setBeginX(int x){
             this.begin.setX(x);
```

```
}
      public int getBeginY(){
             return this.begin.getY();
      }
      public void setBeginY(int y){
             this.begin.setY(y);
      }
      public int getEndBeginX(){
             return end.getX();
      }
      public void setEndX(int x){
             this.end.setX(x);
      }
      public int getEndY(){
             return end.getY();
      }
      public void setEndY(int y){
             this.end.setY(y);
      }
      public double getLength() {
             return begin.distance(end);
      }
      @Override
      public String toString() {
             return "DISTANCE BETWEEN TWO POINTS IS " +getLength();
      }
}
Solution.java
package org;
import pt.LineSub;
import pt.Point;
public class Solution {
      public static void main(String[] args) {
             // TODO Auto-generated method stub
             //Point point = new Point();
             LineSub line = new LineSub(4,2,3,5);
```

```
//String s = toString();
line.getLength();
System.out.println(line.toString());
}
```

OUTPUT



<terminated> Solution (4) [Java Application] C:\Program Files (x86)\Java\jre1.8.0_25\bin\javaw.exe (DISTANCE BETWEEN TWO POINTS IS 2.8284271247461903