

```
package qu5;

class MyPoint{

    private int x=0;

    private int y=0;

    public MyPoint(){}

    public MyPoint(int x,int y){

        this.x=x;

        this.y=y;

    }

    public int getX(){

        return this.x;

    }

    public void setX(int x){

        this.x=x;

    }

    public int getY(){

        return this.y;

    }

    public void setY(int y){

        this.y=y;

    }

    public int[] getXY(){

        int arr[]={this.x,this.y};

        return arr;

    }

}
```

```
public void setXY(int x,int y){  
    this.x=x;  
    this.y=y;  
}  
  
public String toString(){  
    return "(" + this.x + "," + this.y + ")";  
}  
  
public double distance(int x2,int y2){  
    return Math.abs( Math.sqrt( Math.pow( (y2 - this.y), 2) + Math.pow((x2 - this.x), 2) ) );  
}  
  
public double distance( MyPoint p2 ){  
    return Math.abs(Math.sqrt( Math.pow( (p2.y - this.y), 2) + Math.pow((p2.x - this.x), 2) ) );  
}  
  
public double distance(){  
    return Math.abs(Math.sqrt( Math.pow( (0 - this.y), 2) + Math.pow((0 - this.x), 2) ) );  
}  
}
```

```
public class qu5 {  
  
    public static void main(String[] args) {  
        MyPoint p =new MyPoint(5,7);  
  
        System.out.println(p.getX());  
        System.out.println(p.getY());  
        p.setX(6);  
        System.out.println(p.getXY()[0]);  
  
        System.out.println(p.toString());  
  
        System.out.println(p.distance());  
        System.out.println(p.distance(4,4));  
  
        MyPoint p2 =new MyPoint(2,2);  
  
        System.out.println(p.distance(p2));  
  
    }  
}
```