```java
package tp_poo;
import java.util.Random;
public class Point2d {
  private  int x;
  private  int y;

    public int getX() { return x; }
    public void setX(int x) {this.x = x;}
    public void setY(int y) {this.y = y;}
    public int getY() {return y;}
    private int rand(){
    Random r=new Random();
    return r.nextInt(10);
    }
    public Point2d(){
        setX(rand());
        setY(rand());
    //System.out.print("Un nouveau point cree: x= "+x+" y= "+y+" ");
    }
  public Point2d(int a,int b){
      x=a;   y=b;
    //System.out.print("Un nouveau point cree:"+x+" "+y+" ");
    }
 double distance(){ return Math.sqrt(x*x+y*y);}
 double distance(Point2d p){return Math.sqrt((x-p.x)*(x-p.x)+(y-p.y)*(y-p.y));}

  void print(){System.out.println(" x="+x+" y= "+y+" ");}
  void printAll(){System.out.print(" x="+x+" y= "+y+" distance ="+ distance());}

    void change(int a,int b){x=a;y=b;}
    void move(int dx,int dy){x=x+dx;y=y+dy;}
    void rotate(){ int t=x; x=y;y=-x; }

  static boolean isEquel(Point2d a,Point2d b){return a.distance()==b.distance();}
  Point2d Merge(Point2d p){ return new Point2d(x+p.x,Math.max(y,p.y));}
 }
```

```
5  package tp_poo;
6
7  public class NewMain {
8
9
10     public static void main(String[] args) {
11
12         Point2d [] T=new Point2d[7];
13         for(int i=0;i<T.length;i++) {
14             T[i]=new Point2d();
15             T[i].print();
16         }
17
18         Point2d p=new Point2d();
19
20         for(int i=0;i<T.length;i++) {
21             System.out.println("distance= "+ p.distance(T[i]));
22         }
23
24         p.rotate();
25         for(int i=0;i<T.length;i++) {
26             System.out.println("distance= "+ p.distance(T[i]));
27         }
```