Class Point

java.lang.Object
  └ **Point**

public class **Point**
extends Object

Represents a 2-dimensional point.

Constructor Summary

Point(double x, double y) Construct a Point with the given coordinates.	

Method Summary

double	**distance**(Point p) Returns the distance between this point and another point.
boolean	**equals**(Object obj) Is that other Point equivalent to this one?
double	**getX**() Returns the y-coordinate.
double	**getY**() Returns the y-coordinate.
String	**toString**() Returns a String Representation of this Point.
void	**translate**(double dx, double dy) Changes the location of this point by the specified amount in each direction.

Methods inherited from class java.lang.Object

getClass, hashCode, notify, notifyAll, wait, wait, wait

Constructor Detail

Point

```
public Point(double x,
             double y)
```

Construct a Point with the given coordinates.

Parameters:

`x` -

`y` -

Method Detail

getX

```
public double getX()
```

Returns the y-coordinate.

Returns:

the x-coordinate of this point

---

getY

```
public double getY()
```

Returns the y-coordinate.

Returns:

the x-coordinate of this point

---

translate

```
public void translate(double dx,
                      double dy)
```

Changes the location of this point by the specified amount in each direction.

Parameters:

`dx` - amount to move this point by in the x direction

`dy` - amount to move this point by in the y direction

---

toString

```
public String toString()
```

Returns a String Representation of this Point.

Overrides:
`toString` in class `Object`

Returns:
a String representing this point:
Form: Point[x,y]

---

equals

```
public boolean equals(Object obj)
```

Is that other Point equivalent to this one?

Overrides:
`equals` in class `Object`

---

distance

```
public double distance(Point p)
```

Returns the distance between this point and another point.

Parameters:
`p` - the other point

Returns:
the Pythagorean distance between this Point and p.
