**Distance between 2 points**

**package** ClassExercises;

**import** java.util.Scanner;

**public** **class** DistanceBetweenCities {

 **public** **static** **void** main(String[] args) {

 // Distance formula - google.

 Scanner in = **new** Scanner(System.***in***);

 System.***out***.print("City 1 Lat: ");

 **double** City1Lat = in.nextDouble();

 System.***out***.print("City 1 long: ");

 **double** City1Long = in.nextDouble();

 System.***out***.print("City 2 lat: ");

 **double** City2Lat1 = in.nextDouble();

 System.***out***.print("City 2 long: ");

 **double** City2Long = in.nextDouble();

 **double** distance = Math.*sqrt*(Math.*pow*((City2Lat1-City1Lat), 2) + Math.*pow*((City2Long-City1Long), 2)) ;

 System.***out***.print("Distance: " + distance);

 in.close();

}

}