- This program was implemented with Java in Eclipse Workspace. Please run the whole project.

- Please detail any assumptions you have made

* Assumption 1: There are 50 events in the area of (x, y) {-10<x<10, -10<y<10}
* Assumption 2: Each event has [0,10] different types of tickets
* Assumption 3: The amount of each type of ticket is [0,100]
* Assumption 4: The price of each type of ticket is [0,100]

- How might you change your program if you needed to support multiple events at the same location?

* if there are multiple events at the same location, and if these events belong to the five closest events,  
  the program should change the if statement into “<=”and store these events in the list. Because currently this program doesn’t consider the situation when multiple events have the same distance to users.

- How would you change your program if you were working with a much larger world size?

* If we were working with a much larger world size, the return results might be not only the five closest events. We could recommend some events that are a bit far away but with some good value tickets. Because It’s better to average the distance to cover a larger area instead of the nearest location, which could bring more insights and good opportunities to our users.
* Also, the program needs consider a better search/sorting algorithms, to optimize the running.