CS520 Assignment2 report
I used java and python. java to implement simulation system, python for 2D paint.

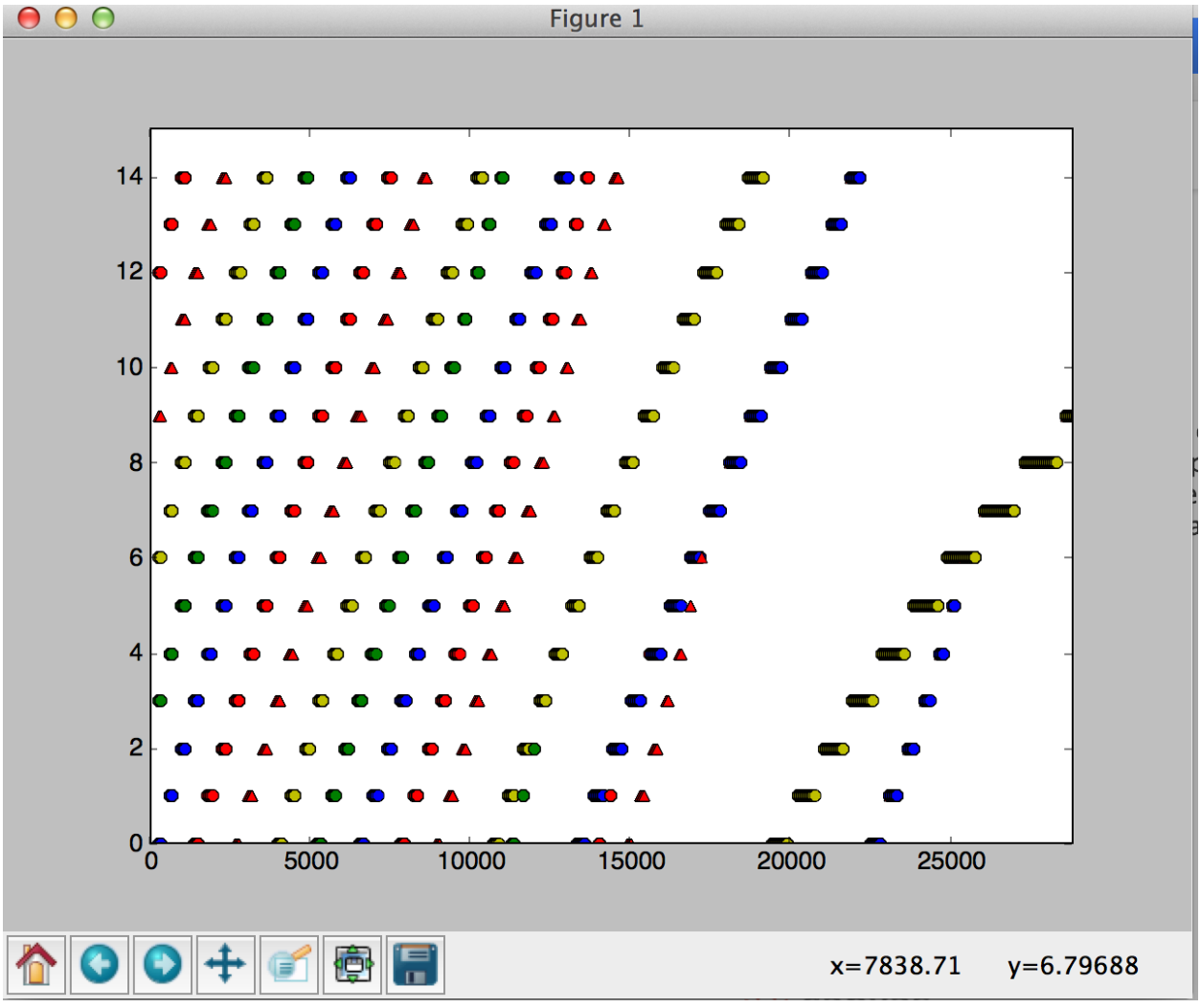
IDE: java(eclipse), python(sublime + terminal)

references:
The java code to get poisson number.
http://stackoverflow.com/questions/1241555/algorithm-to-generate-poisson-and-binomial-random-numbers

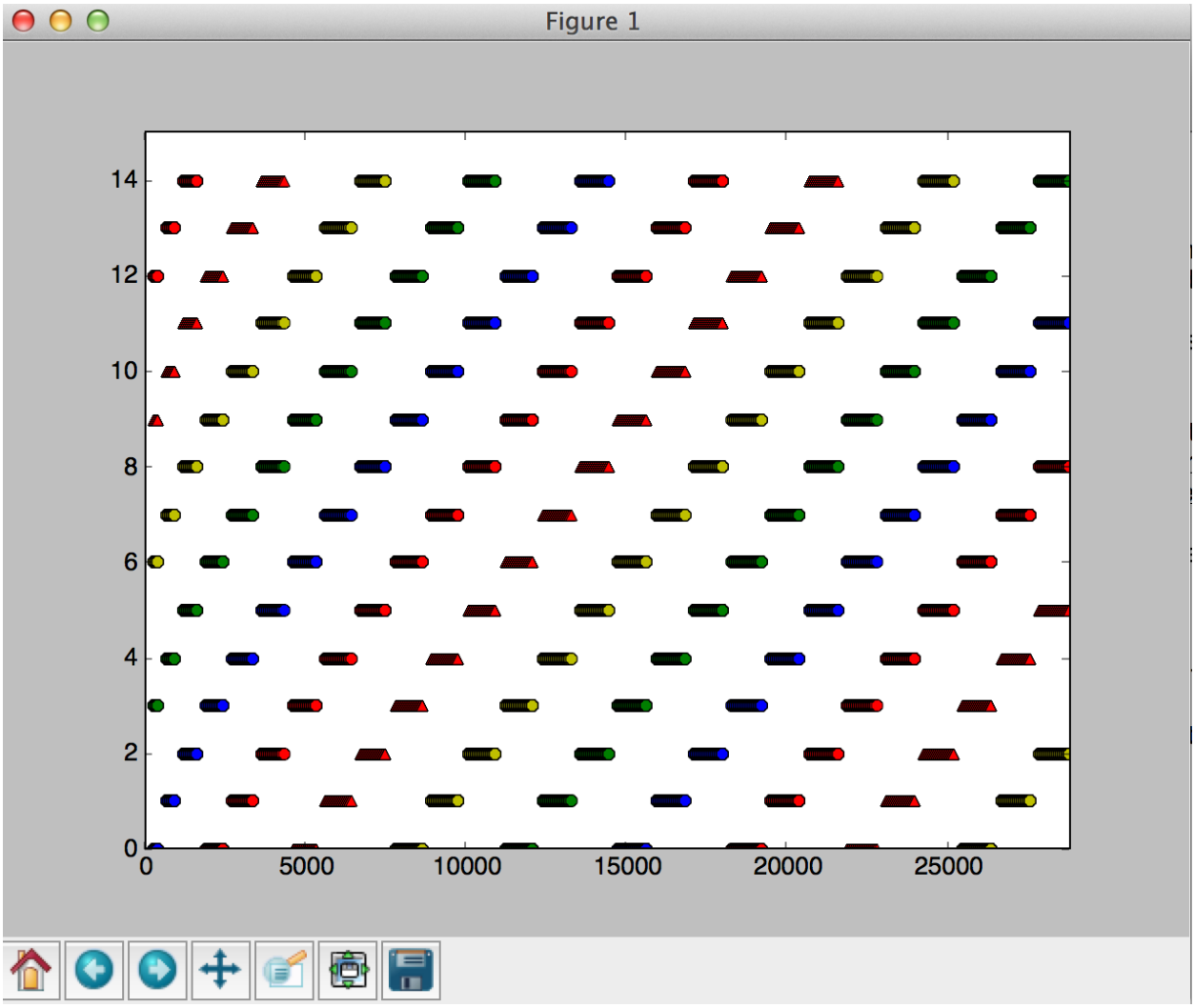
other codes are all mine.

parameters:
station number: 15
bus number: 5
drive time between station: 5 mins
people average arrive time: 2 / min
boarding time: 3 seconds
simulation time: 10 hours

two cases:
1. poisson distribution:
   all buses will finally meet all together.



2. uniform distribution:
   all buses will remain their distance forever.



so if will apply uniform distribution in person arrive schedule instead of poisson distribution, buses will keep uniform.

to test uniform distribution: in station.java class, replace all getRandomPoisson() function with random() function, and run under the same parameters.

min/max/average queue lengths of all stations: (1 hour based)