**Order of Presenters:**

1. Nina – [screen sharer: Heroku app, app.py, jupyter notebooks] Introduction, summary of Project 3, quick review of Project 2 and the enhancements made to our “product”, go through source of data, flowchart and modeling used for predictions
2. Matt – Master Presenter
3. Tejas – Predictions screen, Random Forest, Deep Learning
4. Mir – Coding summary
5. Dan - Tableau

* **Nina:**
* Thank you in advance for your attention, everyone
* For our final project, we built upon our New Jersey Movers application, which was essentially a visualization of tax, income, crime, school ratings and location amongst the 21 NJ counties
  + To further develop our application as a product, we wanted to incorporate machine learning to make predictions about the most appropriate locations to live in NJ based on user input data (specifically income and budget information)
* To quickly re-cap project 2, we used:
  + D3, to create a dynamic scatter chart
  + Plotly, which generated a dashboard based on the county selected
  + Leaflet, to view a map of the NJ counties which were color coded as functions of crime and tax rate, respectively
  + Sunburst library, which provides beautiful visualizations of each data set by county
  + [Go back to “Home” tab]
* So to view where we’ve made several enhancements, let’s review our PROCESS FLOW diagram (and I’ll highlight the new inputs and processes as we go along):
  + Using Zillow price index data for NJ sales by county since 1996, we trained our machine learning models to make several types of predictions, which we will show you in a bit
  + Linear regression, random forest and deep learning models were all tested, some have much better prediction accuracy than the linear regression model
  + The user can make predictions about county and future home prices from the “Prediction” HTML tab
  + Additional data visualizations, including visual forecasts of home prices were added to our application using Tableau; Dan will go over that piece of our app in a little bit