# Lab 2

## Due Date: Sunday January 23rd 2022

### Task 1 - Bar Charts and Box Plots

The file LaptopSalesJanuary2008.csv contains data for all sales of laptops at a computer chain in London in January 2008. This is a subset of the full dataset that includes data for the entire year.

1. Create a bar chat, showing the average retails price by store.
2. To better compare retails prices across stores, create a side by side boxplots of the retail price by store.

### Task 2 - PCA

The dataset on American college and university rankings contains information on 1302 American colleges and universities offering an undergrad program. For each university, there are 17 measurements:

1. Remove all the categorical variables. Then remove all records with missing numerical measurements from the dataset.
2. Conduct PVA on the cleaned data and comments on the results should the data be normalized? Discuss what characterizes the components you consider key