# Soumya Mukherjee | CH24M571 |

# Lab Report Question 1

**1.0 Preface**

The question 1 of the assignment asks us to do the following :

* Ridge Regression with default hyper parameters
* Lasso Regression with default hyper parameters
* Discussion of the impact of regularization term alpha on the coefficient’s values and the model’s performance
* Polynomial Regression of increasing degree 3-10 to calculate the MSEs and discuss the bias , variance , over fitting and the under fitting
* Kernel Ridge Regression with alpha = 1