Name:_____

Email id:_____

Assignment should be done on individual basis.

Q1 Why would you want to use: (25 points)
   • Ridge Regression instead of plain Linear Regression (i.e., without any regularization)?
   • Lasso instead of Ridge Regression?

Q2 Explain bias/ variance dilemma with regard to the model complexity.   (25 points)

Q3 Fit a predictive model to estimate weight of the fish from its length, height and width? (the data source fish.csv can be found here: https://www.kaggle.com/aungpyaeap/fish-market)

   -Report the coefficients values by using Least Square and Stochastic Gradient Descent Optimizers.   (25 points)

Q4 Use iris dataset to train multinomial logistic regression. Perform three-fold cross validation and report the cross validation score.   (25 points)