**Report for Part a**

Value of Learned Parameters in case of non-regularized Gradient descent

theta 0 : 1.56715609177e-16

theta 1 : 0.0428972512435

theta 2 : 0.0281188977431

theta 3 : 0.04466378126

theta 4 : 0.481615427748

Value of Learned Parameters in case of regularized Gradient descent

theta 0 : 1.55688100593e-16

theta 1 : 0.042907617295

theta 2 : 0.0282982595344

theta 3 : 0.0448386763127

theta 4 : 0.481155094804

