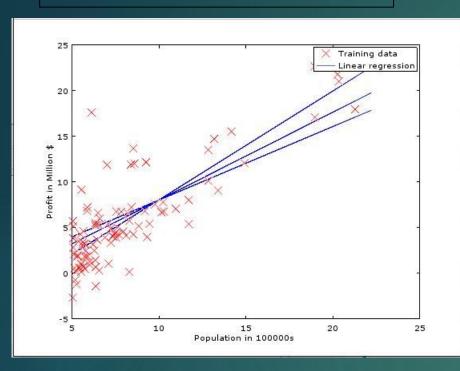
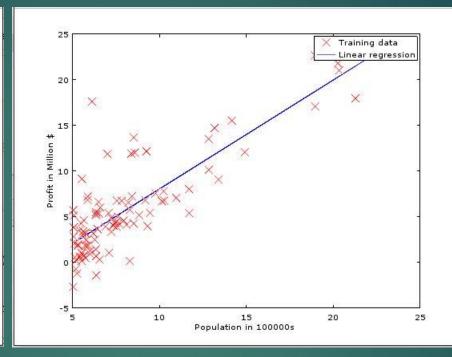
Linear Regression with One Variable

a=0.02, a=0.002, a=0.0001

 $a=0.02 \rightarrow Best$





a=0.02:

Theta0= -3.87 Theta1=1.19 Profit Prediction: 3.805

a=0.002:

Theta0=-1.58 Theta1=0.96 Profit Prediction: 4.614

a=0.0001:

Theta0=-0.027

Theta1=0.804

Profit Prediction: 5.161

For a population of 645996 , the total predicted profit is : 3.805 Million Using alpha=0.02 , Profit= -3.87 + 1.19 * (6.45) = 3.805