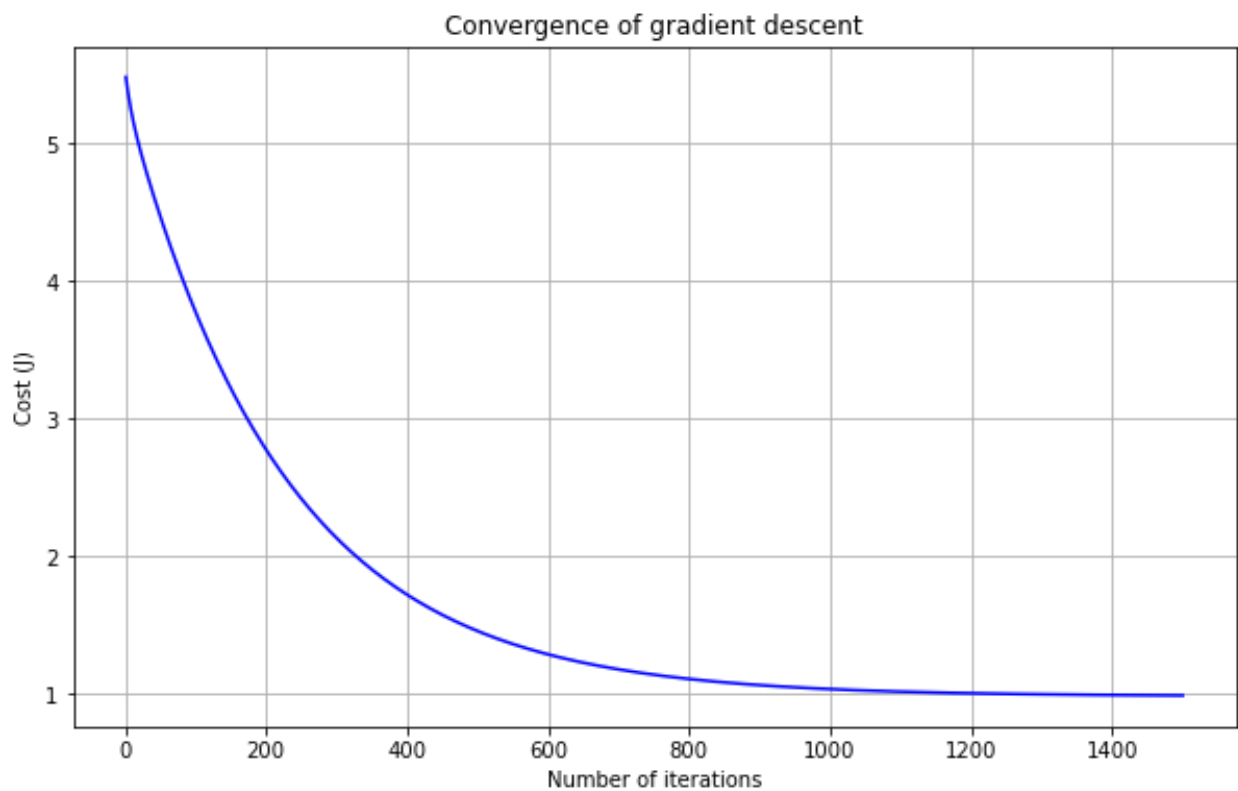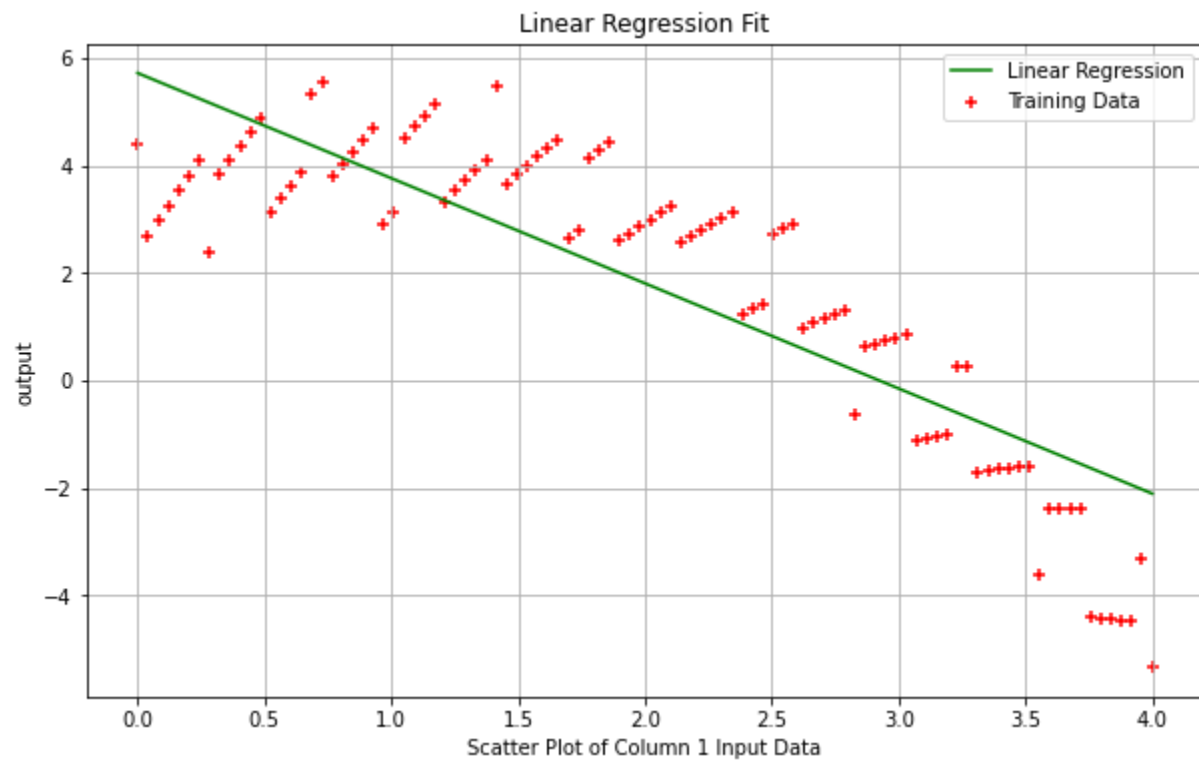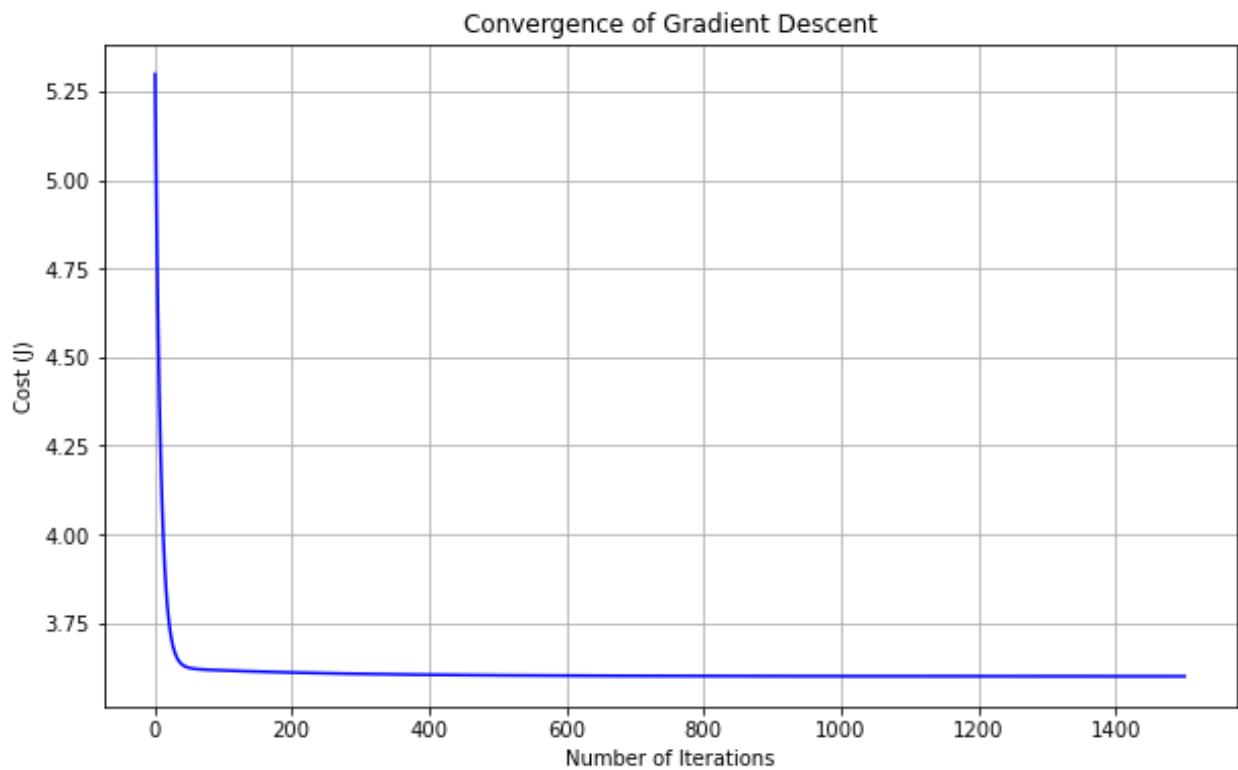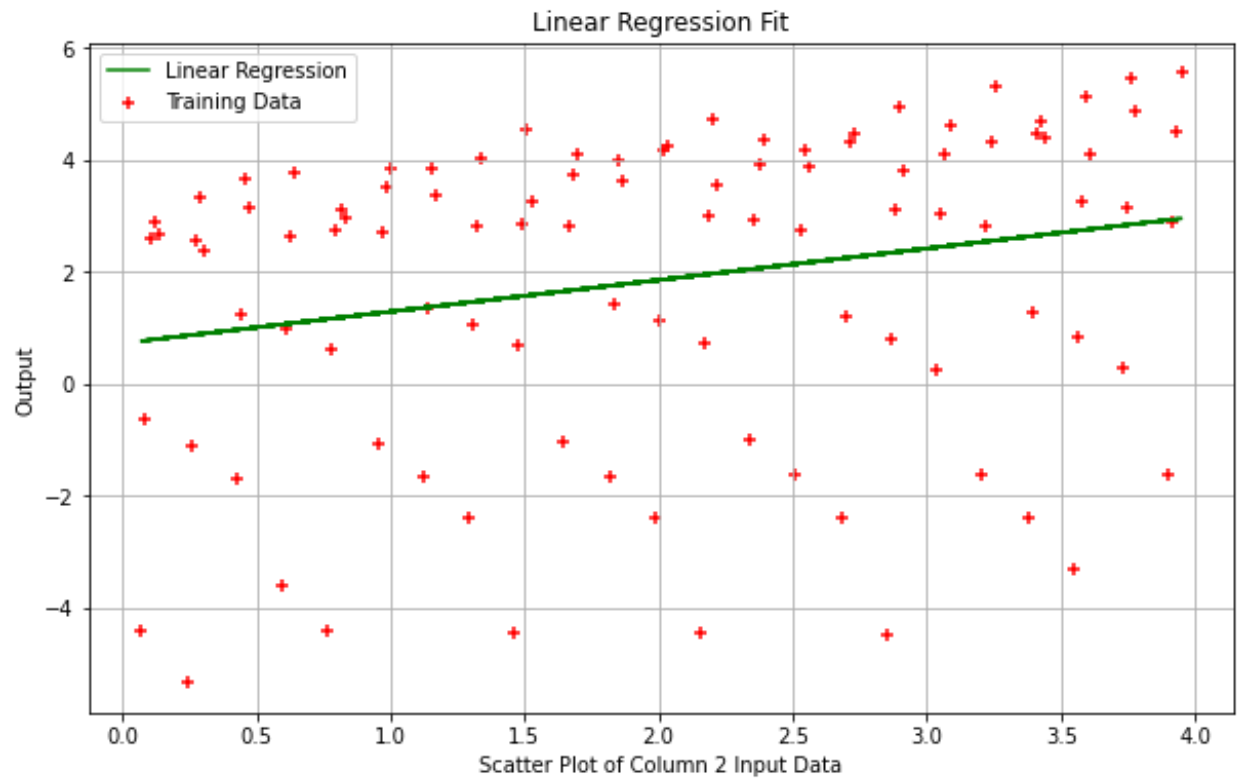This PDF contains all the PDFs generated over HW0.

Question 1, Part 1, Input data 1 Linear Regression and Loss Convergence

Question 1, Part 2, Input data 2 Linear Regression and Loss Convergence

Linear Regression Fit

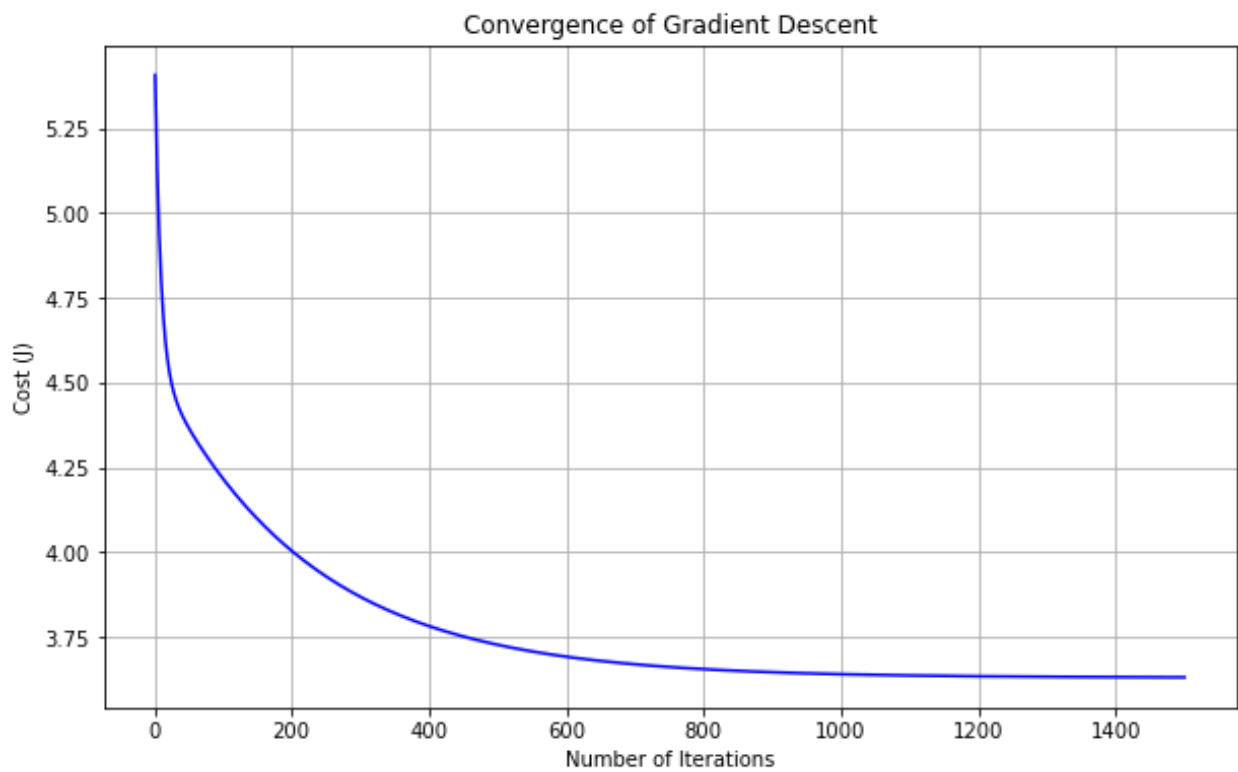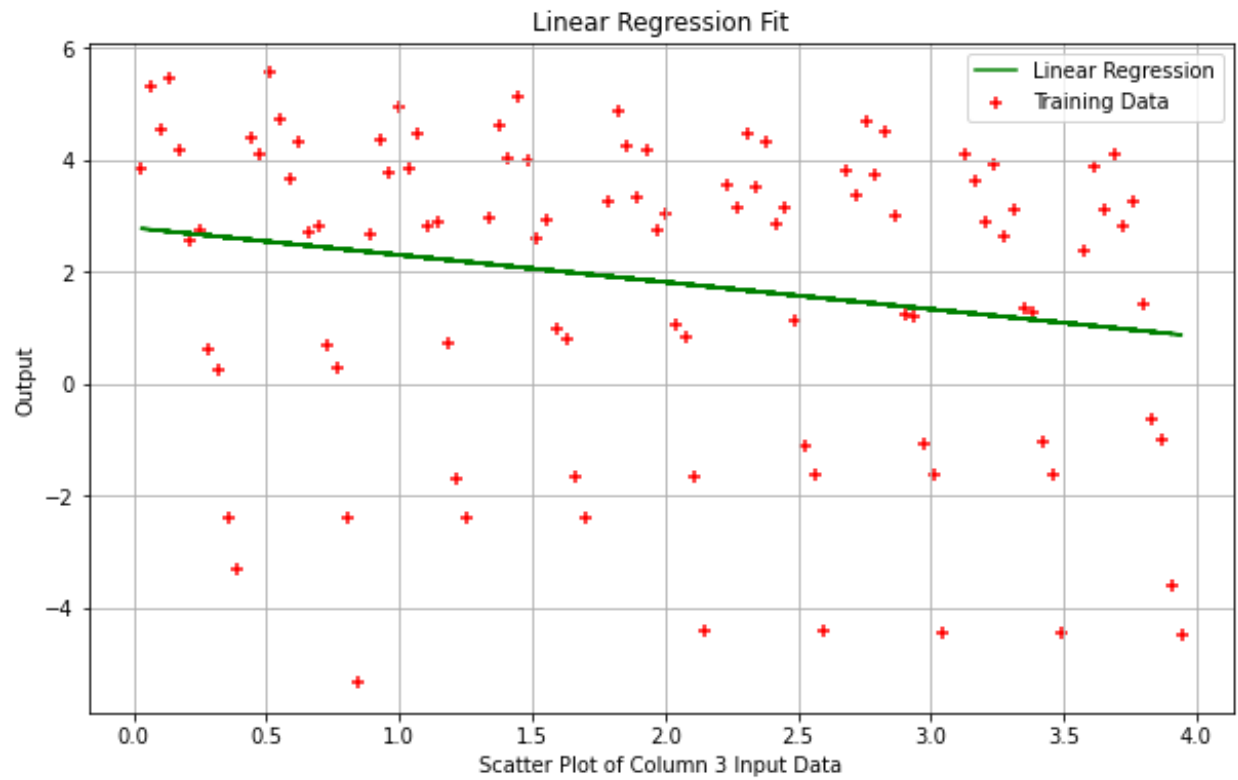Scatter Plot of Column 2 Input Data

Convergence of Gradient Descent

Question 1, Part 3, Input data 3 Linear Regression and Loss Convergence

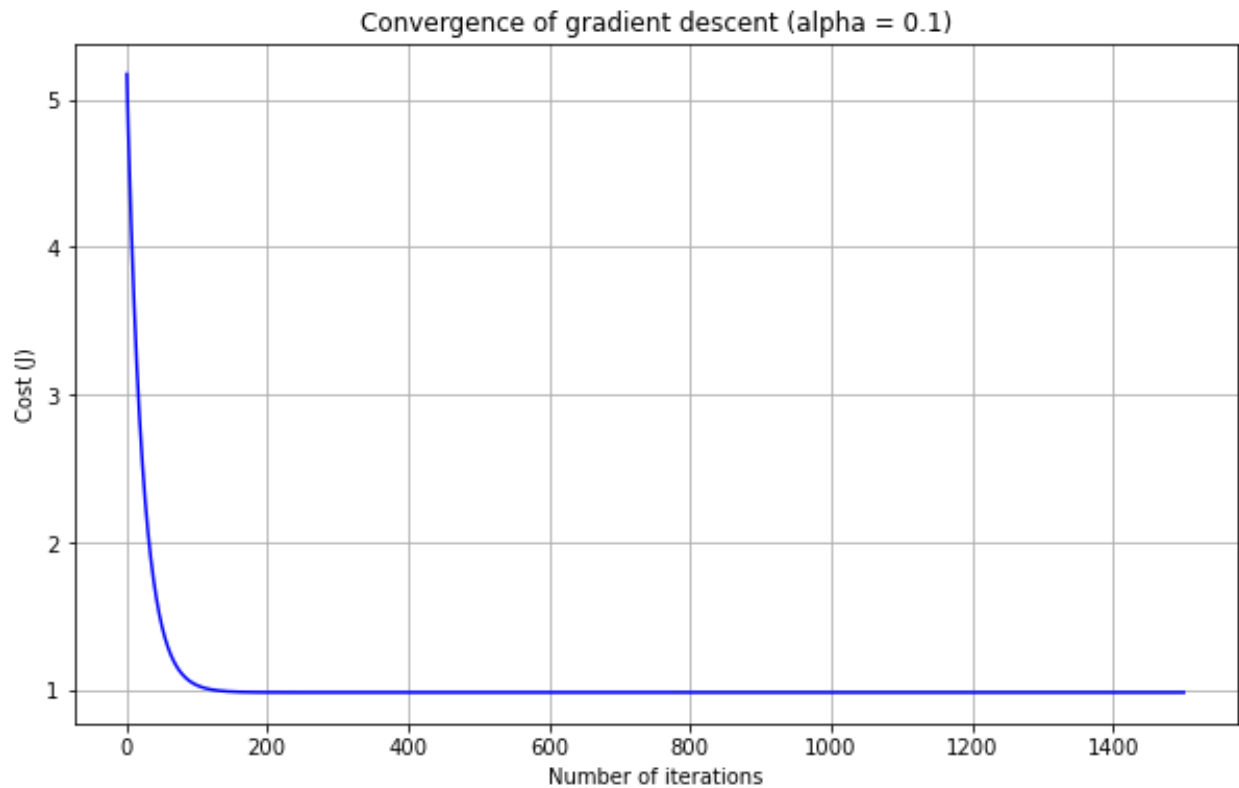Linear Regression Fit

Scatter Plot of Column 3 Input Data

Convergence of Gradient Descent

Question 1, Part 3, Input data 1 Alpha Rate and iteration experimentation

Convergence of gradient descent (alpha = 0.1)

Linear Regression Fit

Scatter Plot of Column 1 Input Data (alpha = 0.01)

Convergence of gradient descent (alpha = 0.1)
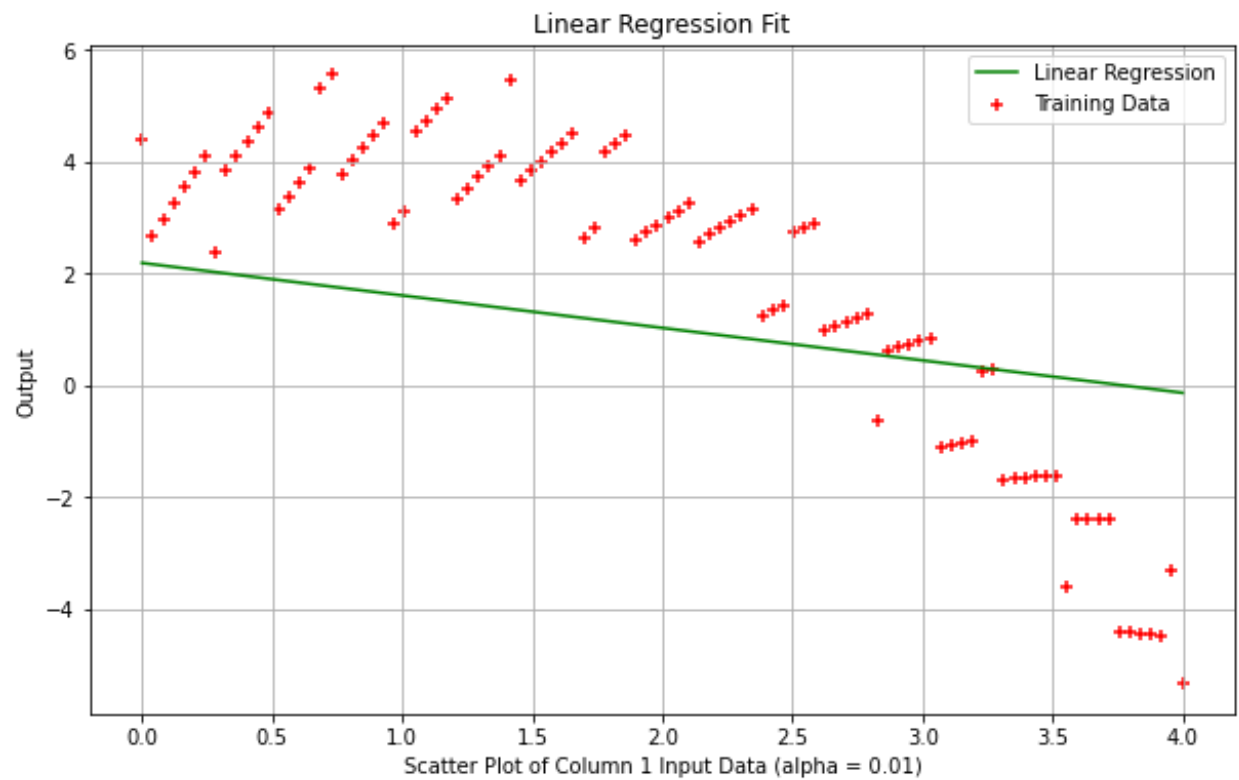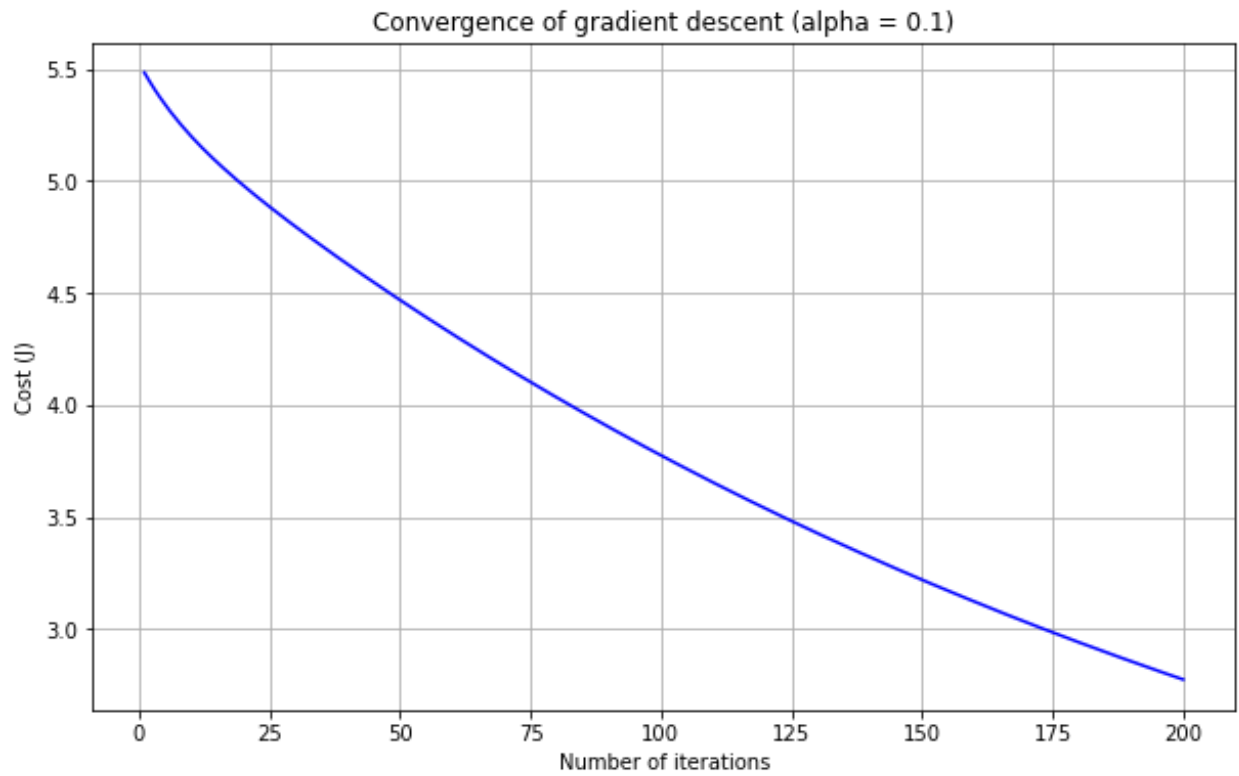
Question 2, Linear regression and loss convergence alpha = 0.1

Linear Regression Fit

Convergence of Gradient Descent (alpha = 1)