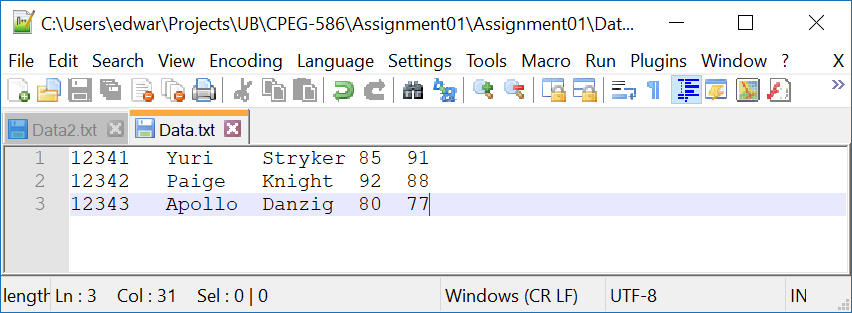
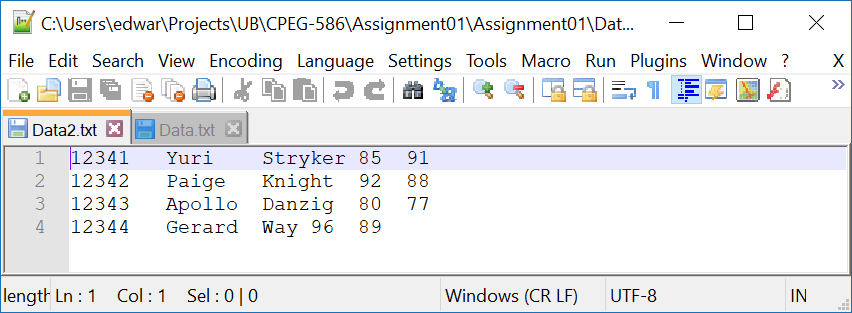
# Problem 1

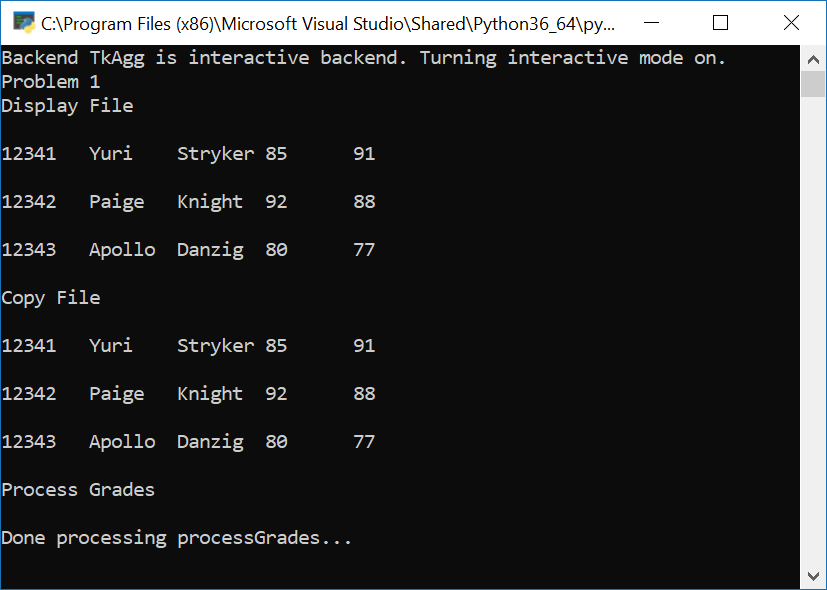
## Input



## Output

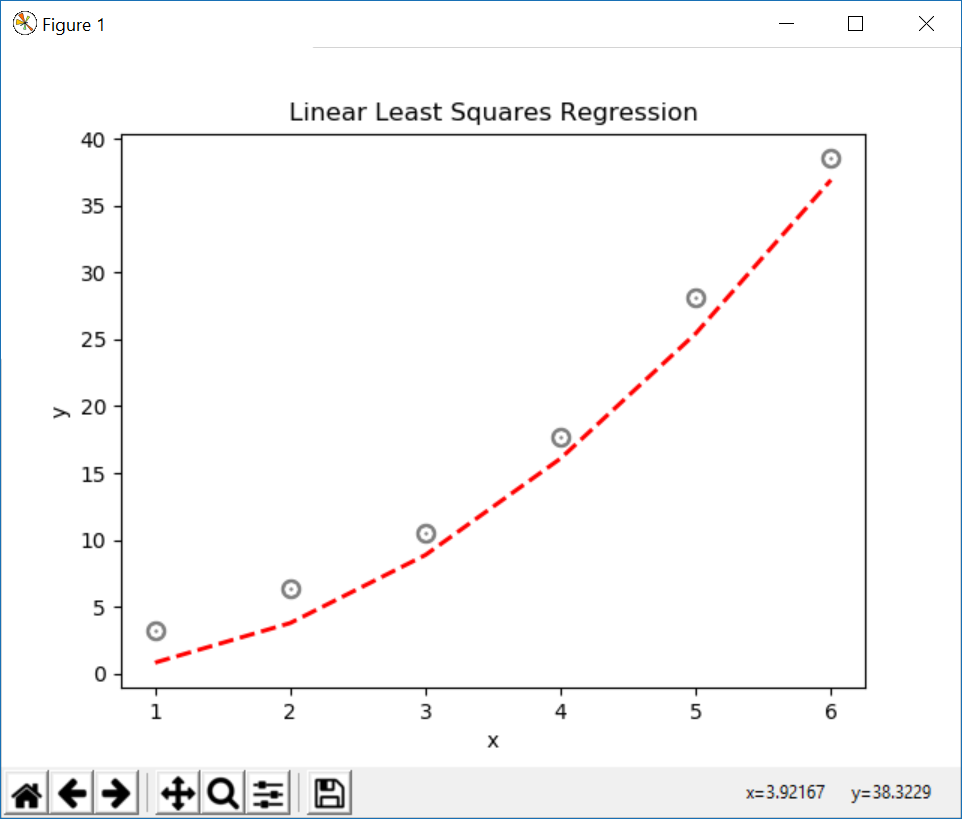


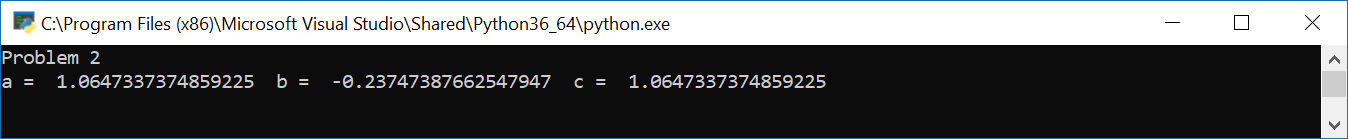
## Screenshot



# Problem 2

## Output





# Problem 3

## Part a

For the single neuron network described in lecture 1, show derivations for computing gradients w1, w2 and b. Assume the network will be classifying using the decision boundary given by:  
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## Part b