Summary

We need to start dealing with complex real-world data and functions

1.   Here are some of the takeaways of this chapter
     a.   Data: Real inputs
     b.   Task: non-linear Classification
     c.   Model: Deep Neural Network
     d.   Loss: $\Sigma_i(y_i - \hat{y}_i)^2$
     e.   Learning: $w = w + \eta\frac{\partial L}{\partial w}$ and $b = b + \eta\frac{\partial L}{\partial b}$
     f.   Evaluation: Accuracy = $\frac{Number\ of\ correct\ predictions}{Total\ Number\ of\ predictions}$