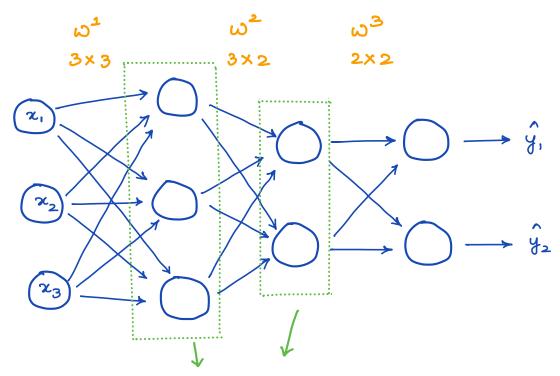
Part 1 - Implementation

In this video we will implement a simple 3 layer network and is the next part we will do forward frespogation.



we will take this as input how many neurons you want to have in 1st and 2nd hidden layer.

CODE :

import numpy as no

Model Parameters

input_size = 2 # no_of_features

layers = [4,3] # no of newcons in 1st and 2nd layer output. Size = 2

```
W1 = np. random. random (input_size, layers[0]) { Create a
print (w1)
import numpy as np
# Model Parameters
input size = 2
layers = [4,3]
output size = 2
W1 = np.random.randn(input size, layers[0])
print(W1)
[[-0.6118095 -0.36986931 2.29482804 -0.52029743]
 Class
   Navial Network:
  def _ init _ (self, input_size, layers, output_size):
      mp. random . seed (0)
       model = { } # Dictionary
       # first Layer
       model ['w1'] = np. random. random (input. size, layers [0])
       model ['b1'] = np. zeros ((1, layers[0]))
       # Second Loyer
       model ['w2'] = np. random. random ( layers [0], layers [1])
       model ['b2'] = np. zeros ((1, layers[1]))
       # Third Out put bayer
       model['w3'] = np. random. randn (layers[1], output_size)
       model ['b3'] = np. zeros ((1, output_size)
        Self. model = model
```