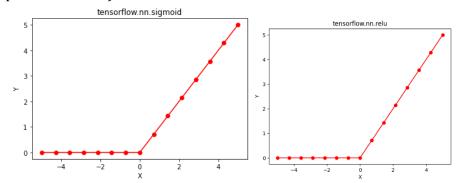
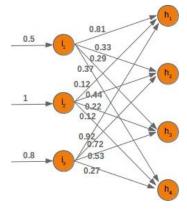
- 1. Define a function for representing the following expression and compute the gradients and print the same
- (i) $3w_1^2 + 2w_1w_2$ with w1, w2 as (3,3) (ii) w^2 with w=1 2. Obtain the following graphs using TensorFlow programming (numpy and matplotlib allowed)



3. Implement a feedforward calculation and obtain the node values of h1, h2, h3 and h4



4. Implement A simple digit recognition system and justify the performance