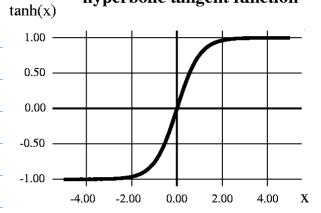
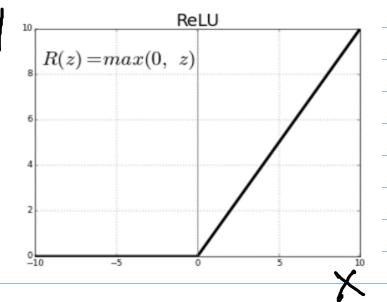


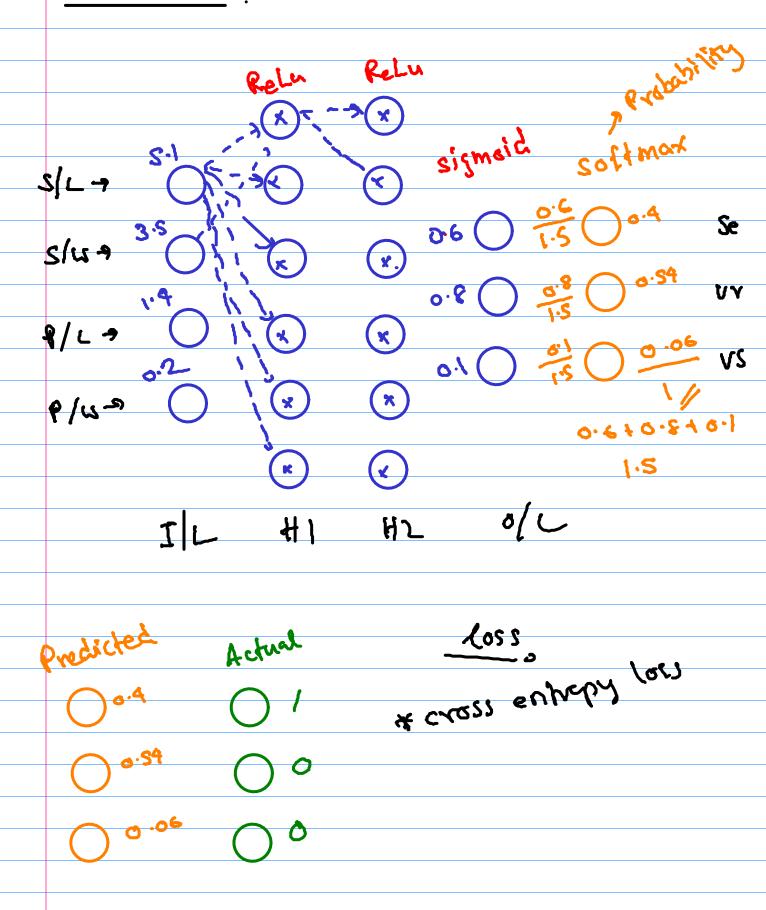
(jii) tanh activation

hyperbolic tangent function

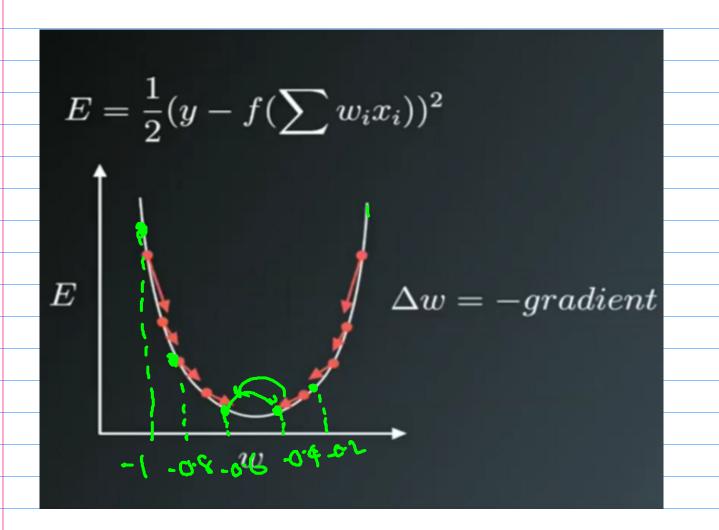




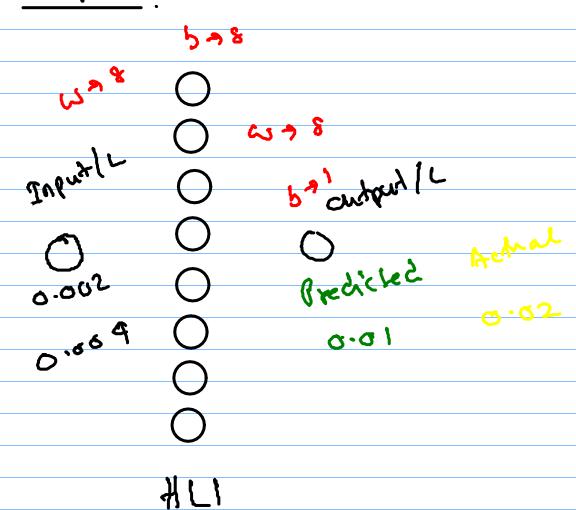
## Loss Functions

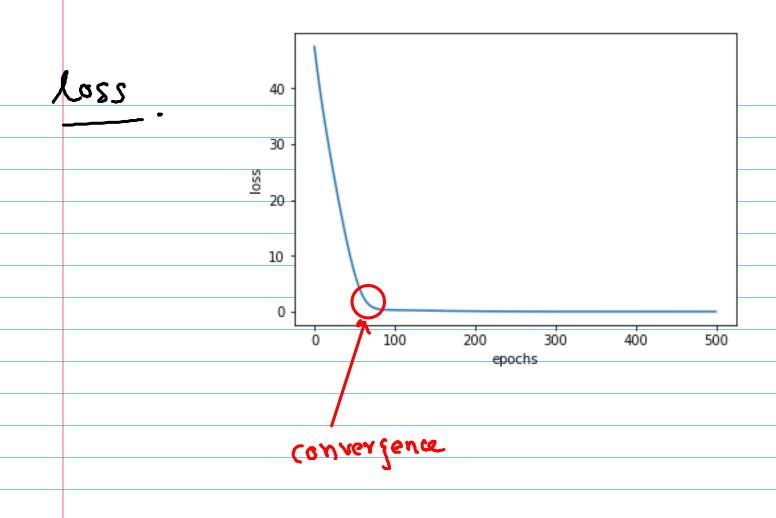


Predicted Actual  $\frac{\log S}{n}$   $\mathcal{L} = -\frac{1}{n} \sum_{i=1}^{n} \left[ y^{(i)} \log(\hat{y}^{(i)}) + (1 - y^{(i)}) \log(1 - \hat{y}^{(i)}) \right]$   $\frac{1}{n} \sum_{i=1}^{n} \left[ y^{(i)} \log(\hat{y}^{(i)}) + (1 - y^{(i)}) \log(1 - \hat{y}^{(i)}) \right]$   $\frac{1}{n} \sum_{i=1}^{n} \left[ y^{(i)} \log(\hat{y}^{(i)}) + (1 - y^{(i)}) \log(1 - \hat{y}^{(i)}) \right]$   $\frac{1}{n} \sum_{i=1}^{n} \left[ y^{(i)} \log(\hat{y}^{(i)}) + (1 - y^{(i)}) \log(1 - \hat{y}^{(i)}) \right]$   $\frac{1}{n} \sum_{i=1}^{n} \left[ y^{(i)} \log(\hat{y}^{(i)}) + (1 - y^{(i)}) \log(1 - \hat{y}^{(i)}) \right]$ 



## 2.0 Simple FENN





## CENN for Iris Flower

