Image 1:[x1,x2,x3,x4]T=[0,0,0,1] T, Label=0

Image 2:[x1,x2,x3,x4] T =[0,0,1,0] T, Label=0

Image 3:[x1,x2,x3,x4] T =[1,1,0,0] T, Label=1

Image 4:[x1,x2,x3,x4] T =[1,1,0,1] T, Label=1

* ,
* Learning rate =0.1

# Forward Calculation

Therefore,

Image1 Output Label = 0; Image2 Output Label = 0

Image3 Output Label = 0; Image4 Output Label = 0

# Backward Propagation

Therefore,

# Forward Calculation Again

Therefore,

Image1 Output Label = 0; Image2 Output Label = 0

Image3 Output Label = 1; Image4 Output Label = 1

This is exactly matching the expected output labels. The learning process stops.