```
//MARKER CAN CHANGE THESE VARIABLES
double learningRate = 0.1; //Alpha. Changing the learning rate
int binaryIndex = 8; //Selecting which 4-bit input you want to use(use ReadMe
text file to choose specific binary at that index)
int numHidden = 8; //changing the hidden layer size
int numOutput = 2; //changing the number of output nodes.
int Epochs = 10000; //changing the iterations for training
```

Output:

Epoch(iteration): 9999

# of Hidden Nodes Used: 8

Learning Rate: 0.1

Final Mean Square Error: 1.3938799089576422E-4

Output Value: 0.011805016864590468

Expected Value: 0

Binary: 1000