## (BONUS ASSIGNMENT)

## Ques3:

In this assignment, we want to use k-fold cross-validation to find the best number of hidden nodes (using a single hidden layer).

## Output of Example run:

Size 1: 0.4549999999999996

Size 2: 0.4

Size 3: 0.4

Size 4: 0.3675

Size 5: 0.3712499999999997

Size 6: 0.30125

Size 7: 0.33625000000000005

Size 8: 0.27375

Size 9: 0.2674999999999996

Size 10: 0.22

Size 11: 0.3175

Size 12: 0.21

Size 13: 0.22125

Size 14: 0.2299999999999998

Size 15: 0.215000000000000002

Size 16: 0.1887499999999997

Size 17: 0.1974999999999998

Size 18: 0.2224999999999998

Size 19: 0.19625

Size 20: 0.15875

Optimal Solution: 20 hidden layers (because error is lowest)

