```
  w      |   Iteration  | Time[sec] |
--------------------------------------
0.100    |    9813      | 0.289863  |
0.200    |    5141      | 0.140544  |
0.300    |    3430      | 0.096141  |
0.400    |    2524      | 0.070281  |
0.500    |    1958      | 0.053929  |
0.600    |    1567      | 0.042769  |
0.700    |    1279      | 0.034924  |
0.800    |    1058      | 0.028872  |
0.900    |     881      | 0.024065  |
1.000    |     737      | 0.020121  |
1.100    |     616      | 0.016729  |
1.200    |     512      | 0.013936  |
1.300    |     423      | 0.011516  |
1.400    |     344      | 0.009367  |
1.500    |     274      | 0.007498  |
1.600    |     210      | 0.005722  |
1.700    |     151      | 0.004122  |
1.800    |      92      | 0.002550  |
1.900    |      99      | 0.002697  |
2.000    |   39686      | 1.085977  |
```

Table 1- Different values of relaxation parameter (w) for Point SOR

It can be seen that at around w = 1.8 and w = 1.9, the solution converges faster (less iterations and less computational time). After testing with different values between 1.8 and 1.9, it is decided that **w = 1.801** is the optimum relaxation parameter. In the code, setting w = 1.801 takes 91 iterations and 0.002460 seconds.