

Task 4

0.080000 is the accuracy when using 10 number of eigenvectors.
0.090000 is the accuracy when using 20 number of eigenvectors.
0.100000 is the accuracy when using 30 number of eigenvectors.
0.130000 is the accuracy when using 40 number of eigenvectors.
0.090000 is the accuracy when using 50 number of eigenvectors.
0.120000 is the accuracy when using 60 number of eigenvectors.
0.070000 is the accuracy when using 70 number of eigenvectors.
0.110000 is the accuracy when using 80 number of eigenvectors.
0.110000 is the accuracy when using 90 number of eigenvectors.
0.100000 is the accuracy when using 100 number of eigenvectors.
0.110000 is the accuracy when using 110 number of eigenvectors.
0.180000 is the accuracy when using 120 number of eigenvectors.
0.100000 is the accuracy when using 130 number of eigenvectors.
0.110000 is the accuracy when using 140 number of eigenvectors.
0.090000 is the accuracy when using 150 number of eigenvectors.
0.080000 is the accuracy when using 160 number of eigenvectors.
0.080000 is the accuracy when using 170 number of eigenvectors.
0.130000 is the accuracy when using 180 number of eigenvectors.
0.120000 is the accuracy when using 190 number of eigenvectors.
0.110000 is the accuracy when using 200 number of eigenvectors.
0.100000 is the accuracy when using 210 number of eigenvectors.
0.080000 is the accuracy when using 220 number of eigenvectors.
0.090000 is the accuracy when using 230 number of eigenvectors.
0.080000 is the accuracy when using 240 number of eigenvectors.
0.080000 is the accuracy when using 250 number of eigenvectors.
0.130000 is the accuracy when using 260 number of eigenvectors.
0.120000 is the accuracy when using 270 number of eigenvectors.
0.110000 is the accuracy when using 280 number of eigenvectors.
0.100000 is the accuracy when using 290 number of eigenvectors.
0.080000 is the accuracy when using 300 number of eigenvectors.

The highest accuracy I got was 18 percentage for 120 eigenvectors.

I used `scrambled_mnist10000.bin` file to calculate the accuracy.