```
    Exercise3
Training SVM with 40 epochs
Epoch #1
Acc: 0.8799
Epoch #2
Acc: 0.89929
Epoch #3
Acc: 0.91418
Epoch #4
Acc: 0.91929
Epoch #5
Acc: 0.92571
Epoch #6
Acc: 0.93031
Epoch #7
Acc: 0.93684
Epoch #8
Acc: 0.94092
Epoch #9
Acc: 0.94694
Epoch #10
Acc: 0.95163
Epoch #11
Acc: 0.9499
Epoch #12
Acc: 0.95449
Epoch #13
Acc: 0.95949
Epoch #14
Acc: 0.95949
Epoch #15
Acc: 0.96153
Epoch #16
Acc: 0.96704
Epoch #17
Acc: 0.96704
Epoch #18
Acc: 0.96827
Epoch #19
Acc: 0.97061
Epoch #20
Acc: 0.97184
Epoch #21
Acc: 0.97255
Epoch #22
Acc: 0.9748
Epoch #23
Acc: 0.97694
Epoch #24
Acc: 0.97469
Epoch #25
Acc: 0.97551
Epoch #26
Acc: 0.97827
Epoch #27
```

```
Acc: 0.97714
Epoch #28
Acc: 0.97755
Epoch #29
Acc: 0.97908
Epoch #30
Acc: 0.98
Epoch #31
Acc: 0.97888
Epoch #32
Acc: 0.9801
Epoch #33
Acc: 0.98112
Epoch #34
Acc: 0.98235
Epoch #35
Acc: 0.98531
Epoch #36
Acc: 0.98102
Epoch #37
Acc: 0.98306
Epoch #38
Acc: 0.98255
Epoch #39
Acc: 0.98265
Epoch #40
Acc: 0.98296
Training done
Test
Accuracy rate: 0.88878
==============
Search values of lambda
Possible values:
    0.1000    0.0100    0.0010    0.0001    0.0000    0.0000

Lambda: 0.1 - Accuracy rate: 0.82388
Lambda: 0.01 - Accuracy rate: 0.75724
Lambda: 0.001 - Accuracy rate: 0.77357
Lambda: 0.0001 - Accuracy rate: 0.80673
Lambda: 1e-05 - Accuracy rate: 0.82204
Lambda: 1e-06 - Accuracy rate: 0.76122
Best lambda:
    0.1000

Final Test with selected lambda
Train with training and validation set
Accuracy rate: 0.97827
```