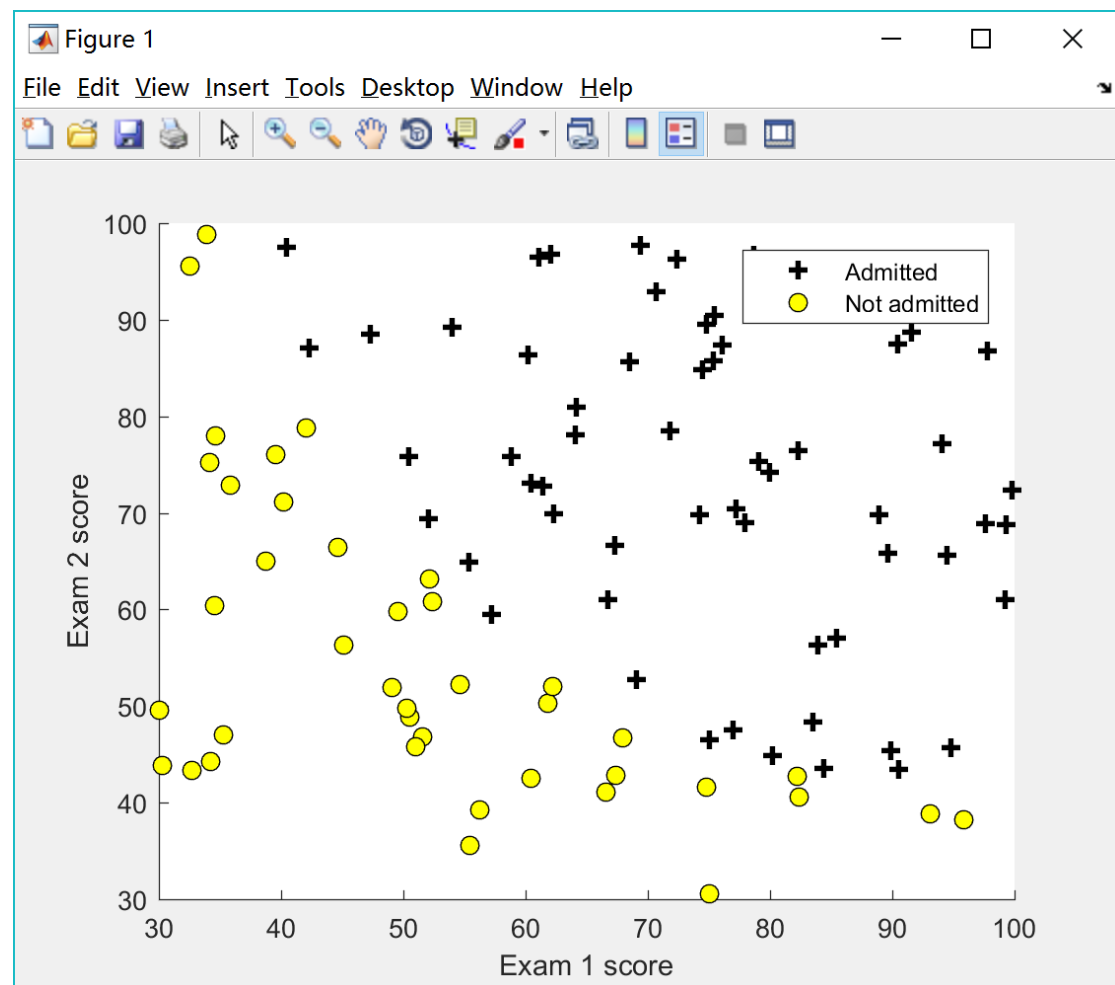


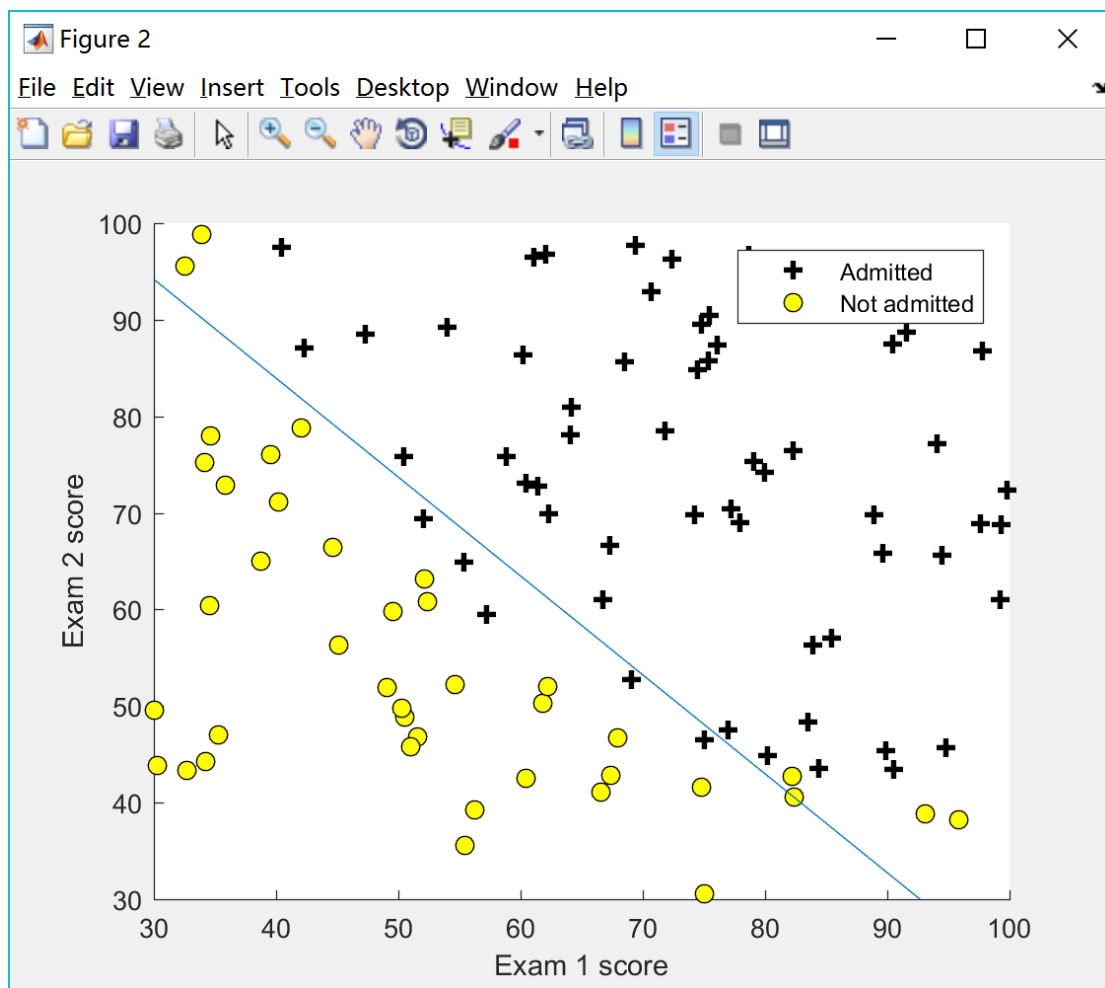
Task3

运行结果

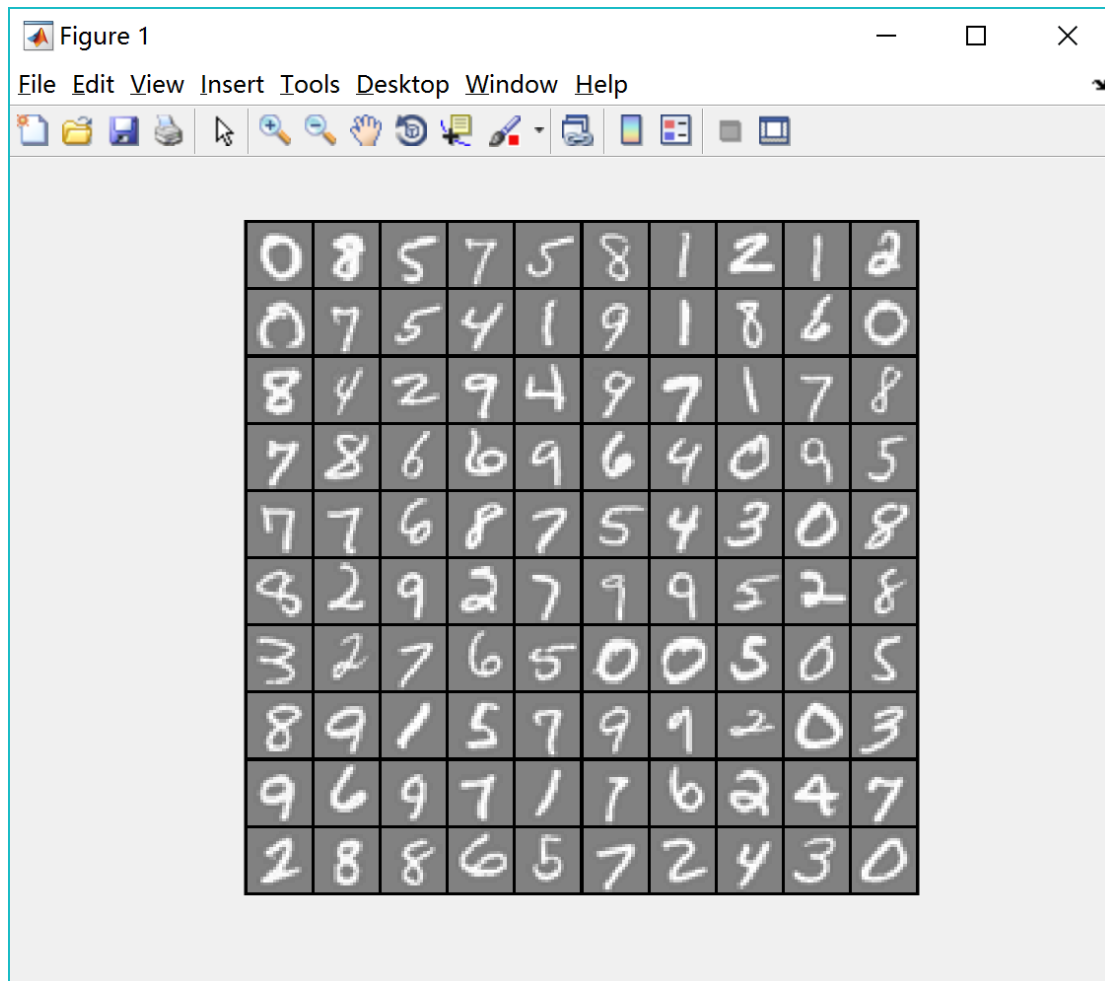
Logistic regression

```
MATLAB R2015b - academic use
HOME PLOTS APPS EDITOR PUBLISH VIEW
New Open Save Find Files Compare Go To Comment Indent Find Breakpoints Run Run and Advance Run Time
F:\git\learnit\ML_Group\task_3\machine-learning-ex2\ex2
Command Window
Program paused. Press enter to continue.
Cost at initial theta (zeros): 0.693147
Gradient at initial theta (zeros):
-0.100000
-12.009217
-11.262842
Program paused. Press enter to continue.
Local minimum possible.
fminunc stopped because the final change in function value relative to
its initial value is less than the default value of the function tolerance.
<stopping_criteria_details>
Cost at theta found by fminunc: 0.203506
theta:
-24.923946
0.204407
0.199618
Program paused. Press enter to continue.
For a student with scores 45 and 85, we predict an admission probability of 0.774323
Train Accuracy: 89.000000
Program paused. Press enter to continue.
```





One vs all



MATLAB R2015b - academic use

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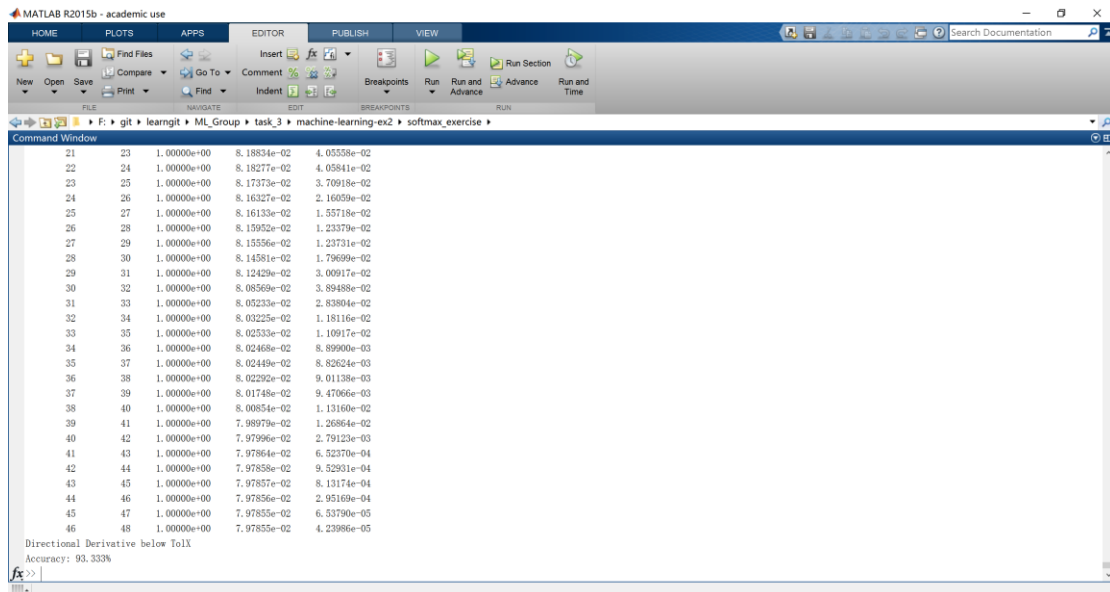
Command Window

```
F:\git\learnit\ML_Group\task_3\machine-learning-ex3> ex3
Iteration 27 Cost: 1.399742e-02
Iteration 28 Cost: 1.345917e-02
Iteration 29 Cost: 1.321219e-02
Iteration 30 Cost: 1.320100e-02
Iteration 31 Cost: 1.294498e-02
Iteration 32 Cost: 1.260010e-02
Iteration 33 Cost: 1.256912e-02
Iteration 34 Cost: 1.243740e-02
Iteration 35 Cost: 1.236272e-02
Iteration 36 Cost: 1.230297e-02
Iteration 37 Cost: 1.223894e-02
Iteration 38 Cost: 1.217598e-02
Iteration 39 Cost: 1.214853e-02
Iteration 40 Cost: 1.208408e-02
Iteration 41 Cost: 1.149982e-02
Iteration 42 Cost: 1.073612e-02
Iteration 43 Cost: 1.018490e-02
Iteration 44 Cost: 1.015736e-02
Iteration 45 Cost: 1.004872e-02
Iteration 46 Cost: 9.996305e-03
Iteration 47 Cost: 9.936278e-03
Iteration 48 Cost: 9.922655e-03
Iteration 49 Cost: 9.903240e-03
Iteration 50 Cost: 9.886625e-03

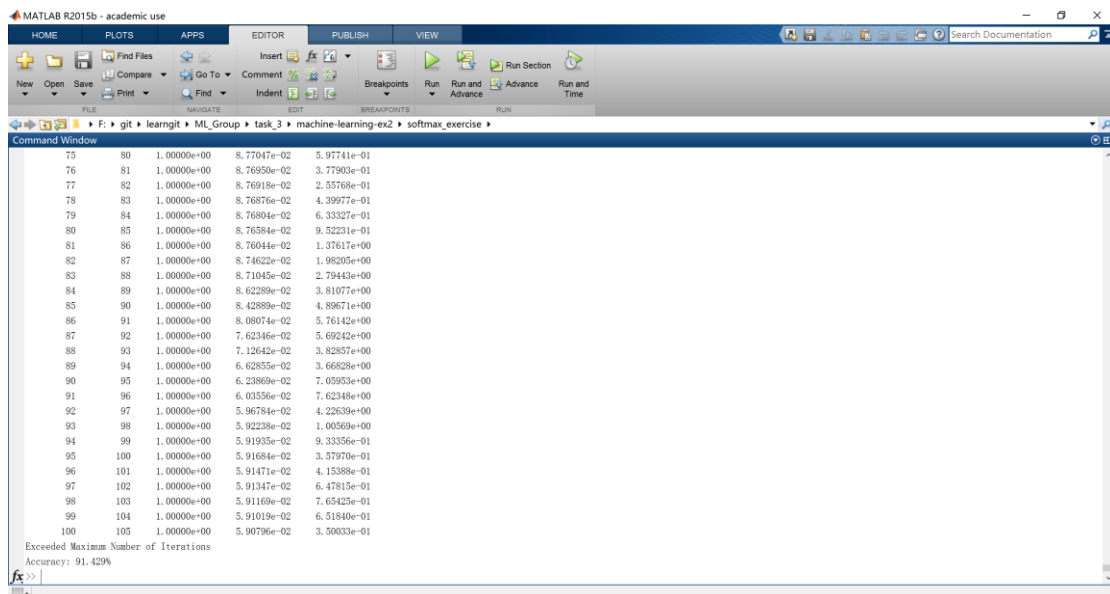
Program paused. Press enter to continue.

Training Set Accuracy: 94.840000
fx>>
```

SoftmaxExercise
Iris



Wine



Hand-write

