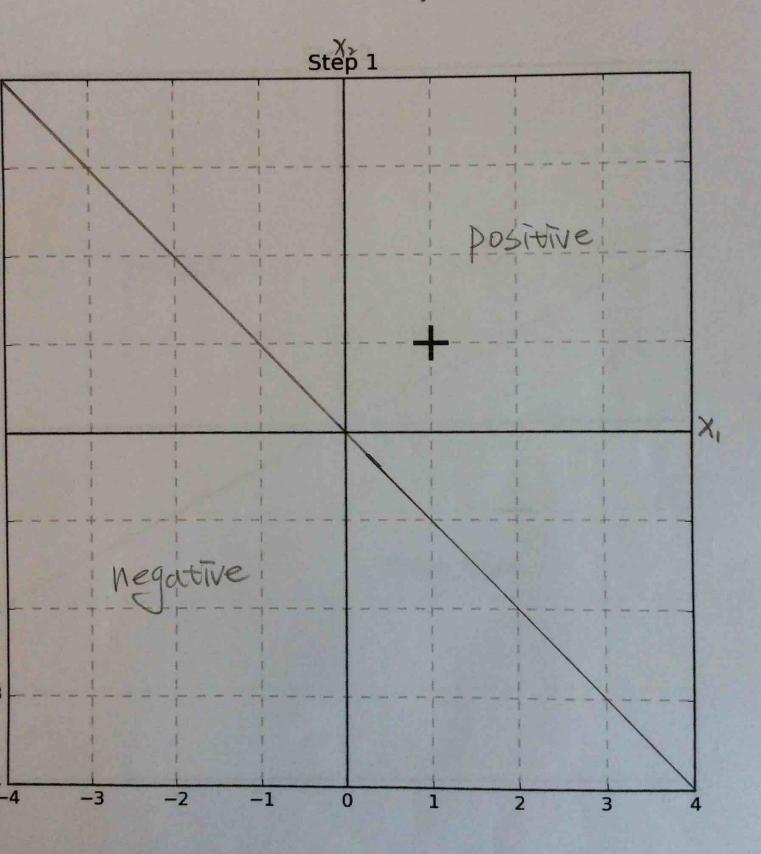
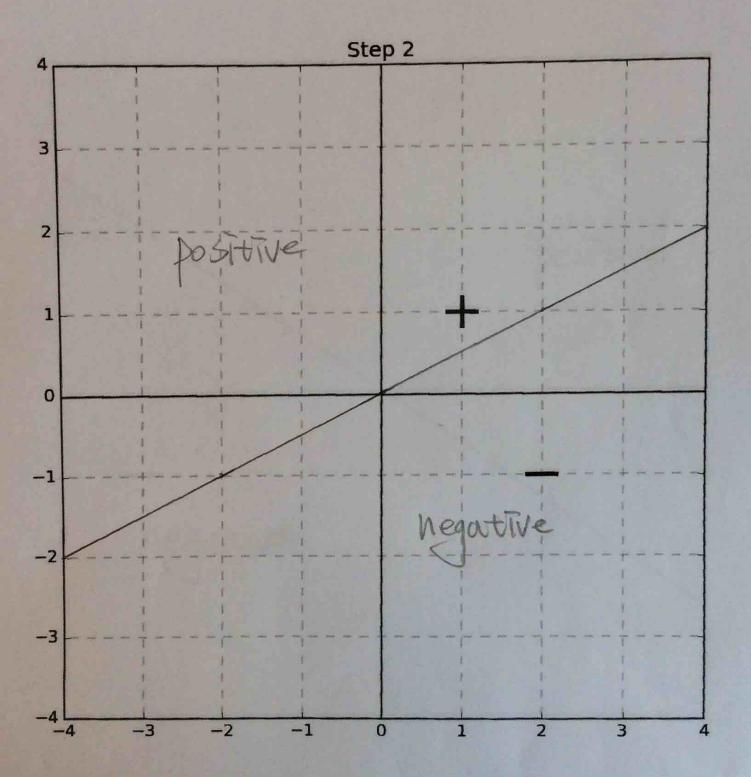
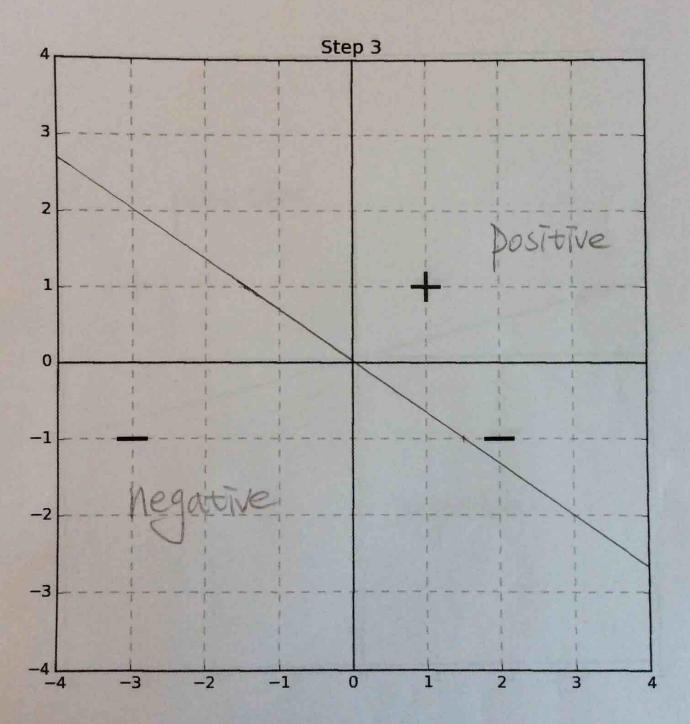
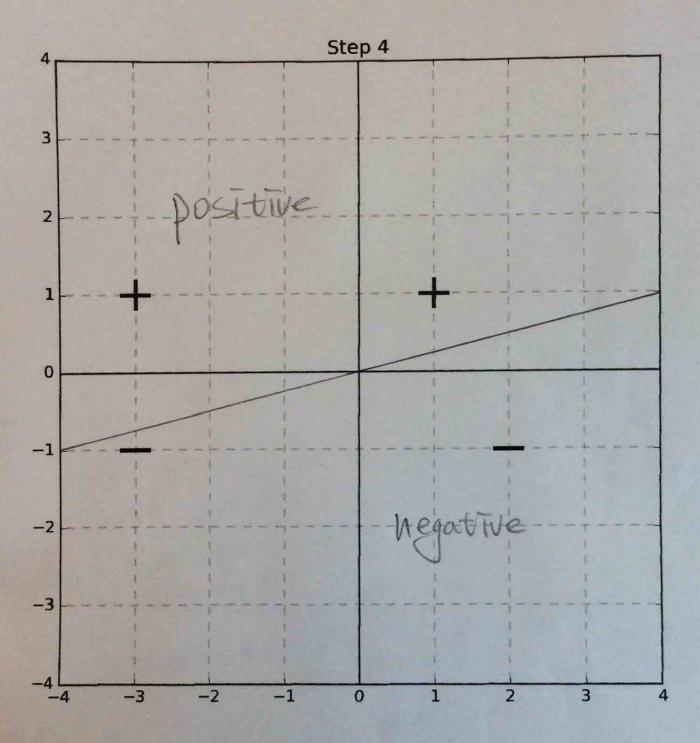
① る=ロデナデナを(は=ロデナンデンタ) Q Y= ± · NO+2422 = NE (3) 8 = TIWII => Wi+ w2+ w3= (+)= (+=)= W2=W3= = W1=0 · W=[0 + +]T $(4) \quad | \hat{w}_0 \leq -1 - w^T \phi(x_0) = -1$ $| \hat{w}_0 \geq 1 - w^T \phi(x_0) = -1$ S. f(x)=-1+ をx+生x=====(x+生)-本 P2: 13 On next page 3) mistakes < == == 100 100 - 4 = 96 96 mistakes allowed for future data

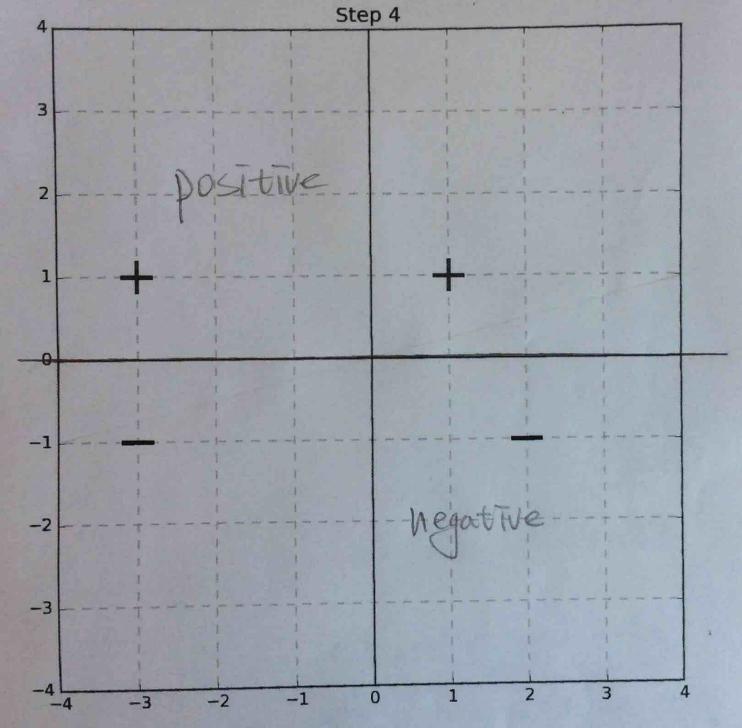






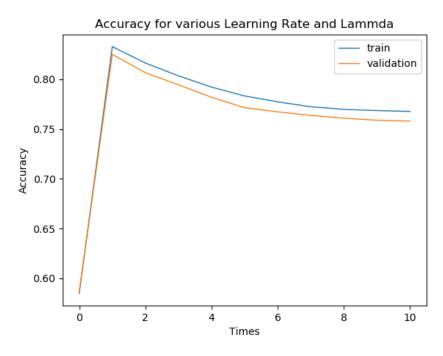


part 1 does not maximize the margin Equation: Xz=0



Prat II. Programming

According to Learning rate vs Accuracy graph, we could find that when learning rate =0.1, lammda = 0.001, the accuracy is best. The best accuracy is 0.8393169.



```
Python 3.6.4rc1 Shell — — — X a set Shell Debug Options Window Help

Python 3.6.4rc1 (v3.6.4rc1:3398dcb, Dec 5 2017, 20:41:32) [MSC v.1900 64 bit (A MD64)] on win32

Type "copyright", "credits" or "license()" for more information.

>>>

==== RESTART: C:\Users\zhaoq\Desktop\EE511\HW#2\QIHAN_ZHAO_HW#2\test.py ====
...Training Accuracy: 0.8393169742944013

Validation Accuracy: 0.8393169742944013

...

Ran 5 tests in 18.733s

OK
>>>
```