

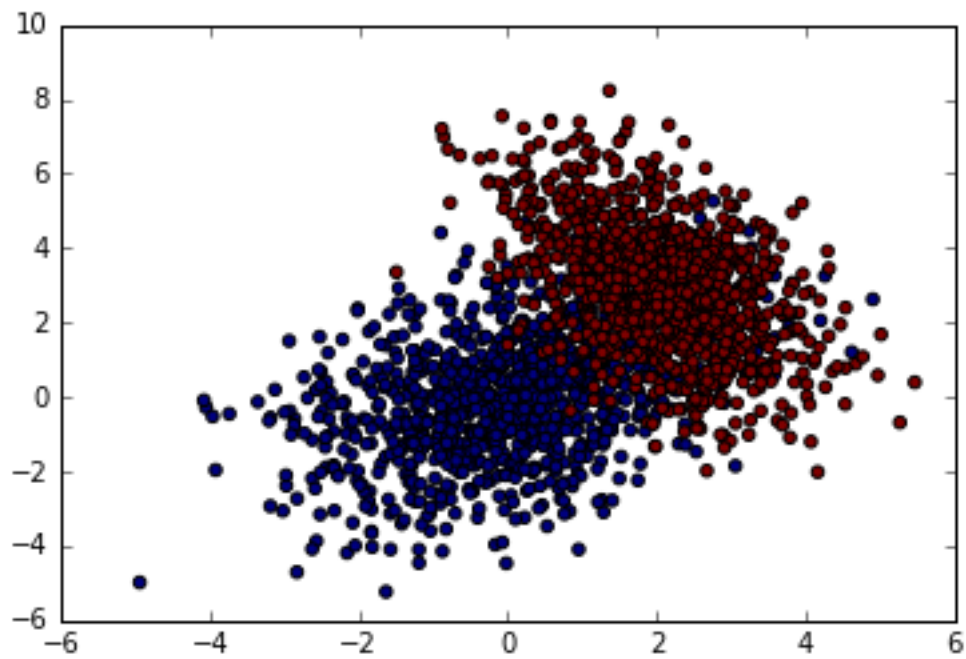
# Machine Learning HW2

Payam AZAD - 503111554

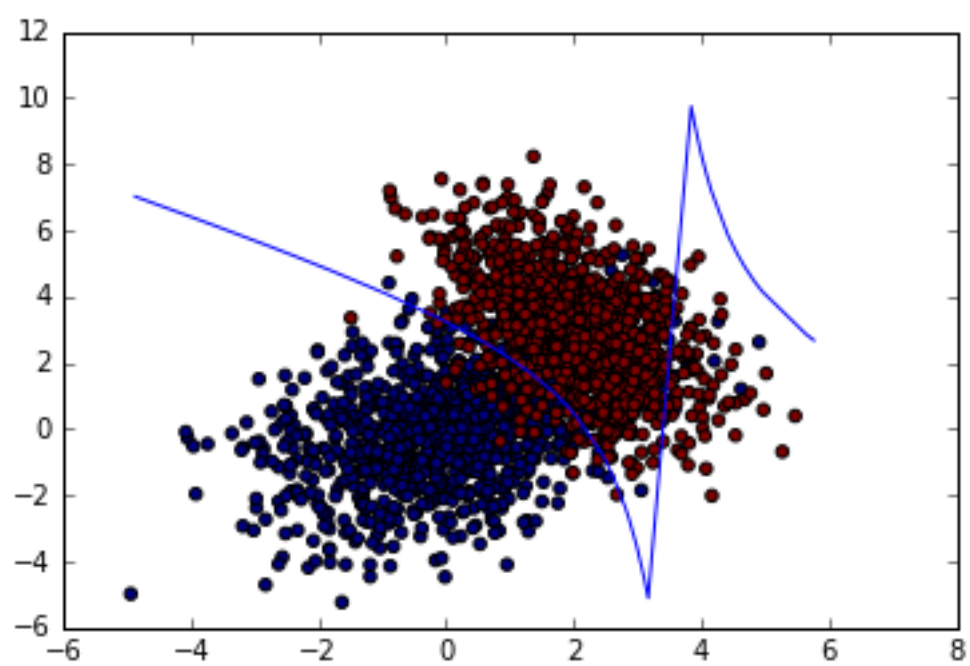
November 3, 2016

		Q1	Q2	Q3	Q4	Q5	Total
Grade	Max	1	1	1	1	1	5
	Expected	1	1	1	1	0	4

Q1

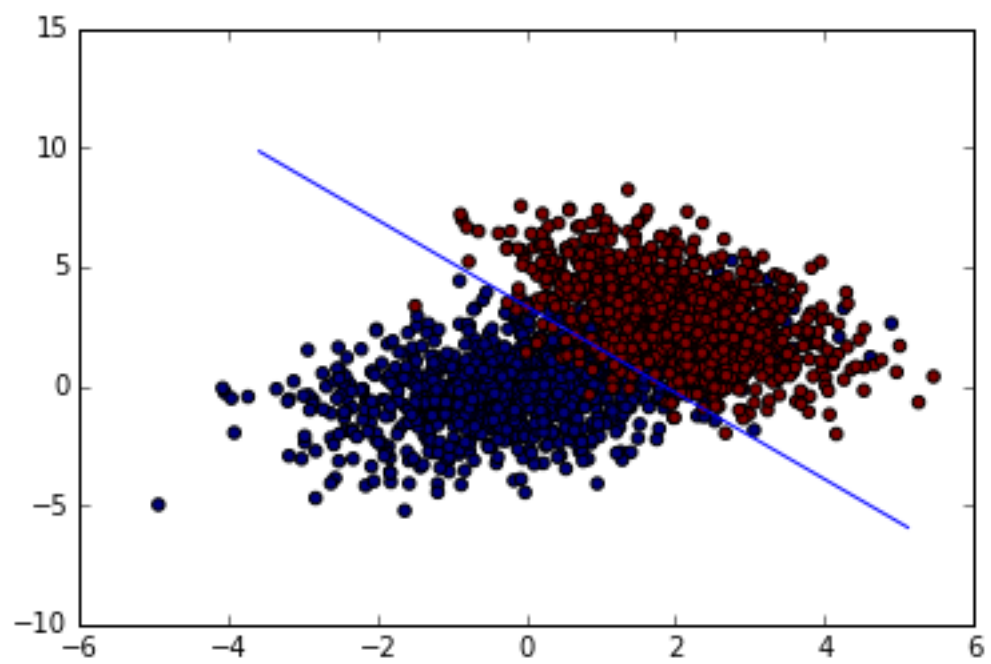


```
iteration #1:
    train error: 0.107777777778
    validation error: 0.09
iteration #2:
    train error: 0.108888888889
    validation error: 0.085
iteration #3:
    train error: 0.105
    validation error: 0.115
iteration #4:
    train error: 0.102222222222
    validation error: 0.135
iteration #5:
    train error: 0.104444444444
    validation error: 0.125
iteration #6:
    train error: 0.106666666667
    validation error: 0.095
iteration #7:
    train error: 0.108888888889
    validation error: 0.09
iteration #8:
    train error: 0.103333333333
    validation error: 0.13
iteration #9:
    train error: 0.108333333333
    validation error: 0.085
iteration #10:
    train error: 0.105555555556
    validation error: 0.115
```

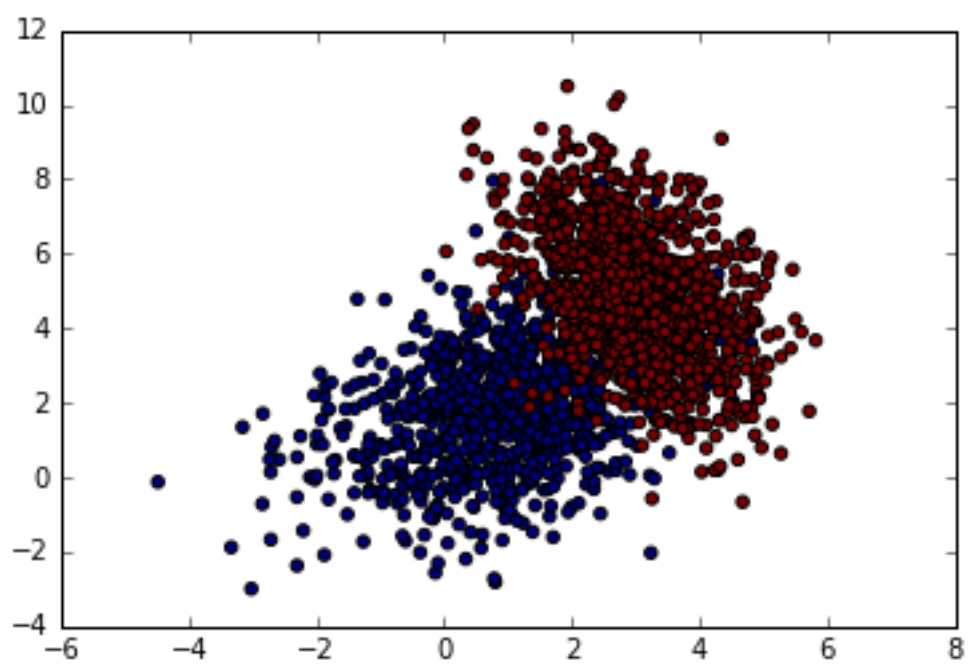


Q2

```
iteration #1:
    train error: 0.109444444444
    validation error: 0.095
iteration #2:
    train error: 0.11
    validation error: 0.09
iteration #3:
    train error: 0.107222222222
    validation error: 0.11
iteration #4:
    train error: 0.107222222222
    validation error: 0.11
iteration #5:
    train error: 0.105555555556
    validation error: 0.125
iteration #6:
    train error: 0.107777777778
    validation error: 0.115
iteration #7:
    train error: 0.106666666667
    validation error: 0.115
iteration #8:
    train error: 0.107222222222
    validation error: 0.115
iteration #9:
    train error: 0.108888888889
    validation error: 0.095
iteration #10:
    train error: 0.107777777778
    validation error: 0.105
```

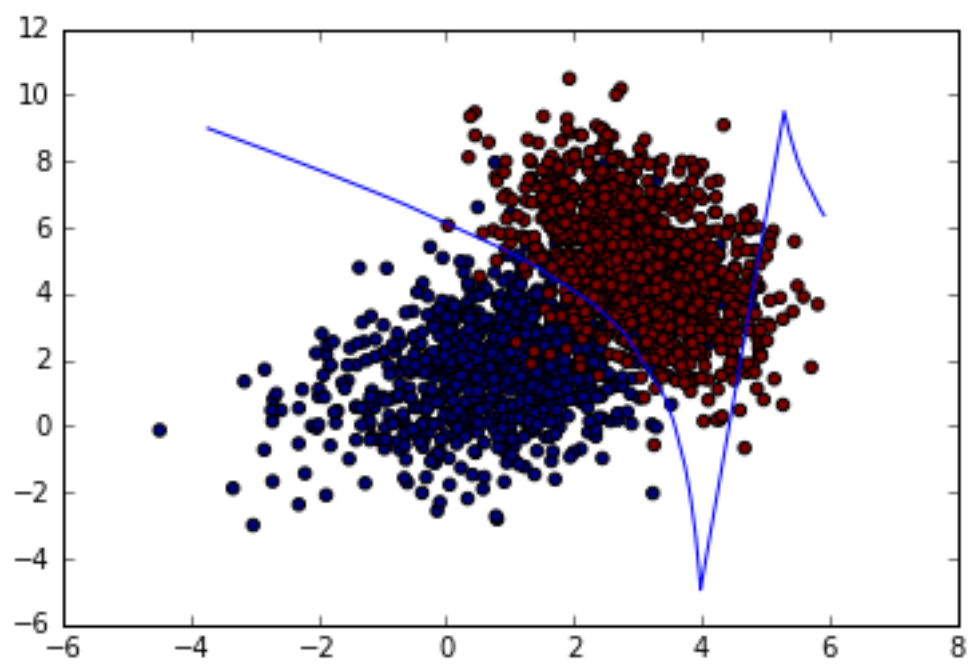


Q3



Q4

```
iteration #1:
    train error: 0.11
    validation error: 0.085
iteration #2:
    train error: 0.111111111111
    validation error: 0.075
iteration #3:
    train error: 0.101666666667
    validation error: 0.155
iteration #4:
    train error: 0.106666666667
    validation error: 0.115
iteration #5:
    train error: 0.111666666667
    validation error: 0.07
iteration #6:
    train error: 0.110555555556
    validation error: 0.085
iteration #7:
    train error: 0.107777777778
    validation error: 0.105
iteration #8:
    train error: 0.108333333333
    validation error: 0.105
iteration #9:
    train error: 0.106111111111
    validation error: 0.125
iteration #10:
    train error: 0.102222222222
    validation error: 0.155
```



Q5