

('Predicted Negatives: ', 13089) ('Number of True Positives: ', 6589) ('Number of True Negatives: ', 9678) ('Number of False Negatives: ', 3411) ('Number of False Positives: ', 322) ('Precision: ', 0.9534076110548401) ('Recall: ', 0.6589) Question 2(i) I Don't Know Question 2(j) I Don't Know Question 2(k) I Don't Know Question 2(I) I Don't Know Question 3 Question 3(b) Training mean 93.49333333333333 Test mean 92.56 Question 5(a)

 $[0.5 \ 0.5]$

```
[nan 0.]
```

[-inf 0.]

Question 5(c)

```
(array([0.5, 0.5]), array([-0.69314718, -0.69314718]))
(array([1., 0.]), array([ 0., -1000.]))
(array([0., 1.]), array([-1000., 0.]))
```

Question 6

Learning Rate = 1
Last Training Loss and Accuracy 0.2493540928811836, 93.2416666666667
Last Test Loss and Accuracy 0.2707049764857453, 92.58

Question 7 I Don't Know