

## ML ASSIGNMENT 2

### Utkal Sahoo (2105856)

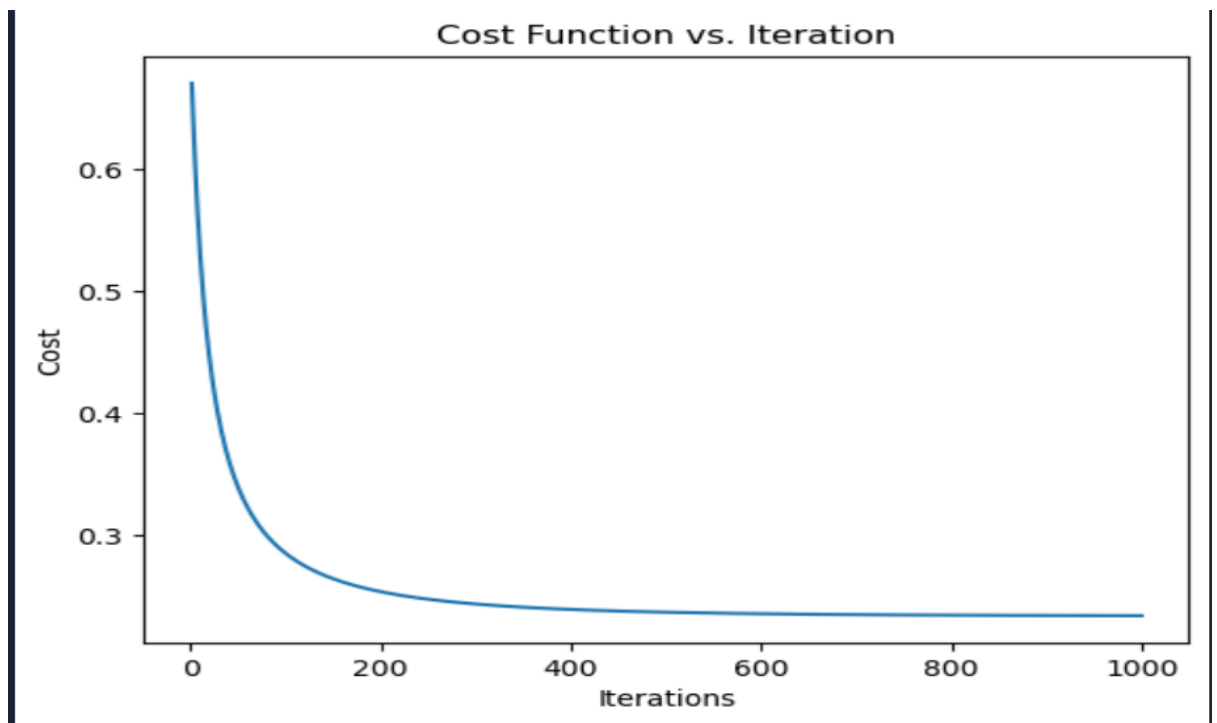
#### Question 1

Cost function value = 0.23

learning parameter value = [0, 2.31, -2.43]

```
Final Cost Function Value: 0.23  
Final Parameters (theta): [ 0.    2.31 -2.43]
```

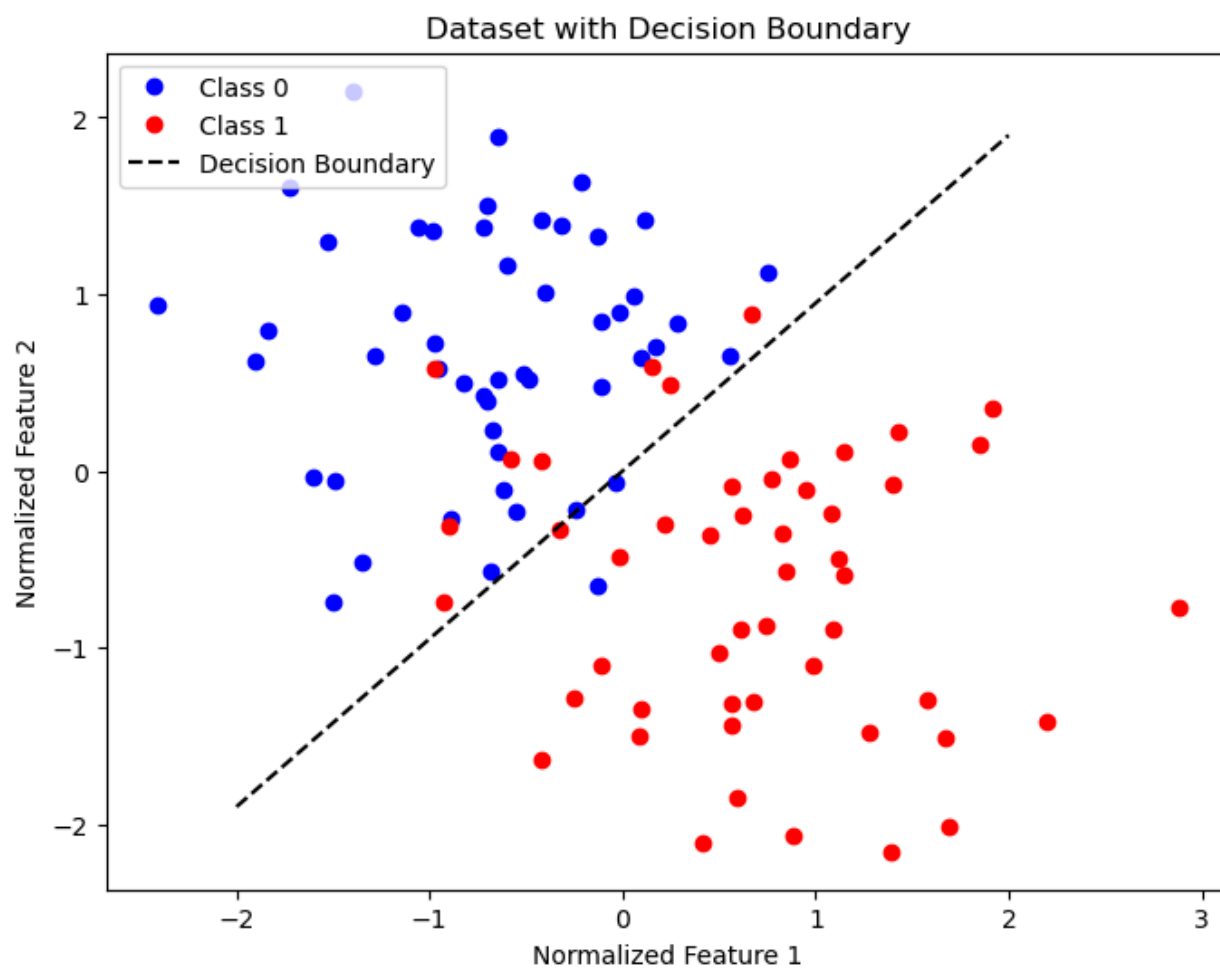
#### Question 2



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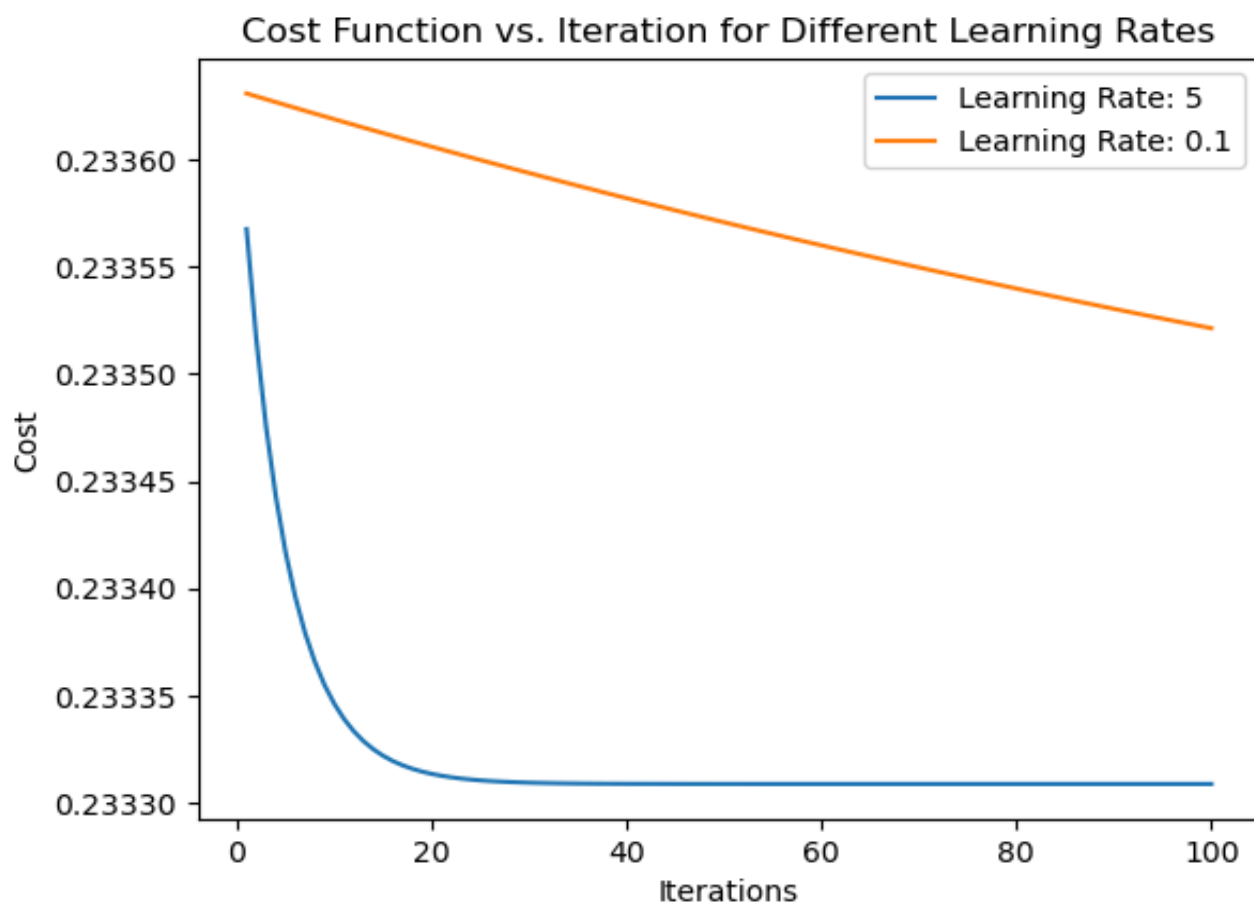
### Question 3



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#### Question 4



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#### Question 5

Confusion Matrix:

	POSITIVE	NEGATIVE
POSITIVE	TP (42)	FP (2)
NEGATIVE	FN (8)	TN (48)

Metrics (in percentage):

Accuracy: 90.0

Precision: 95.45454545454545

Recall: 84.0

F1-score: 89.36170212765958

GITHUB LINK - <https://github.com/utkal2048/ML-ASSIGHMENT-2>