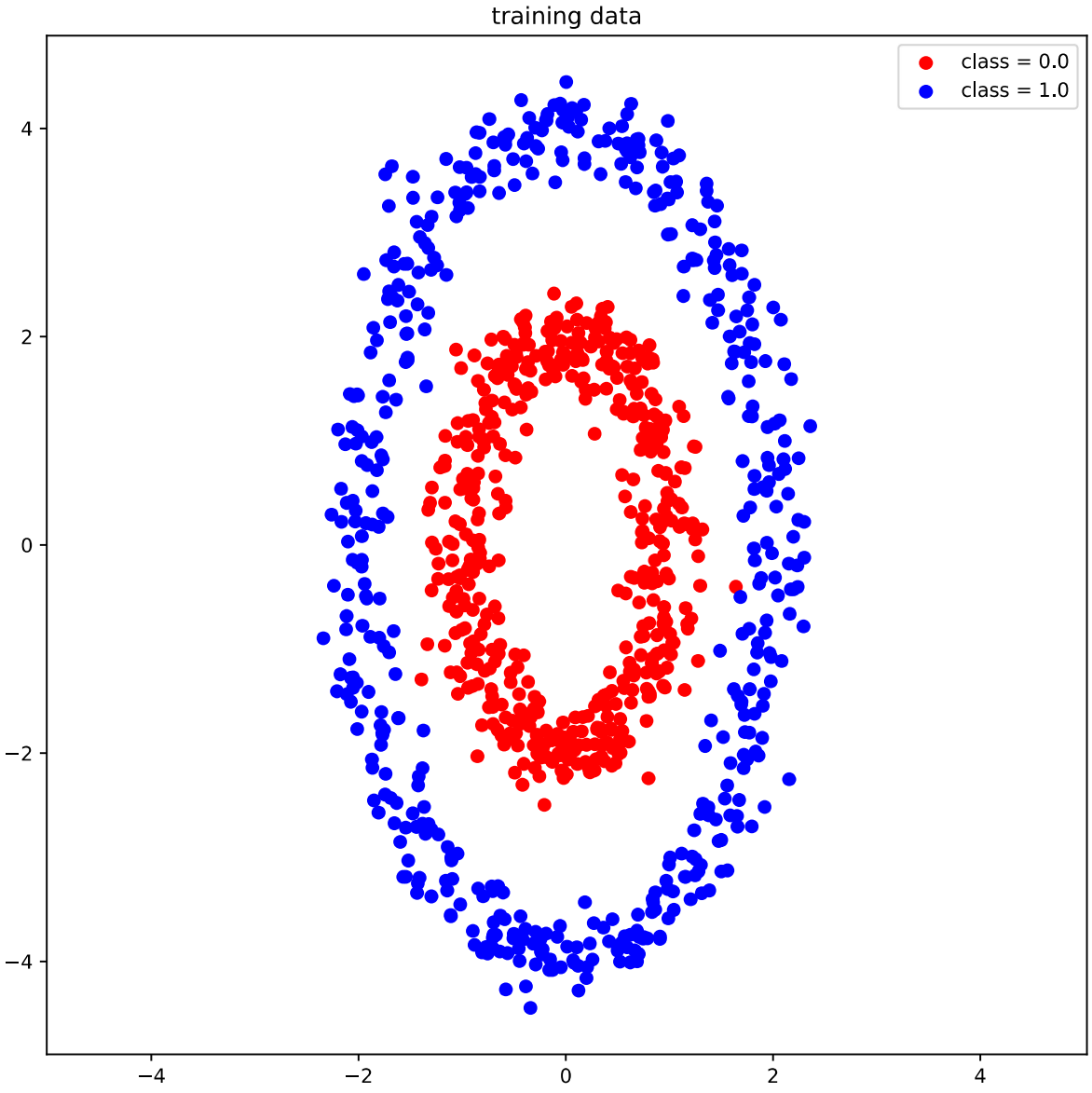
*

* results

*

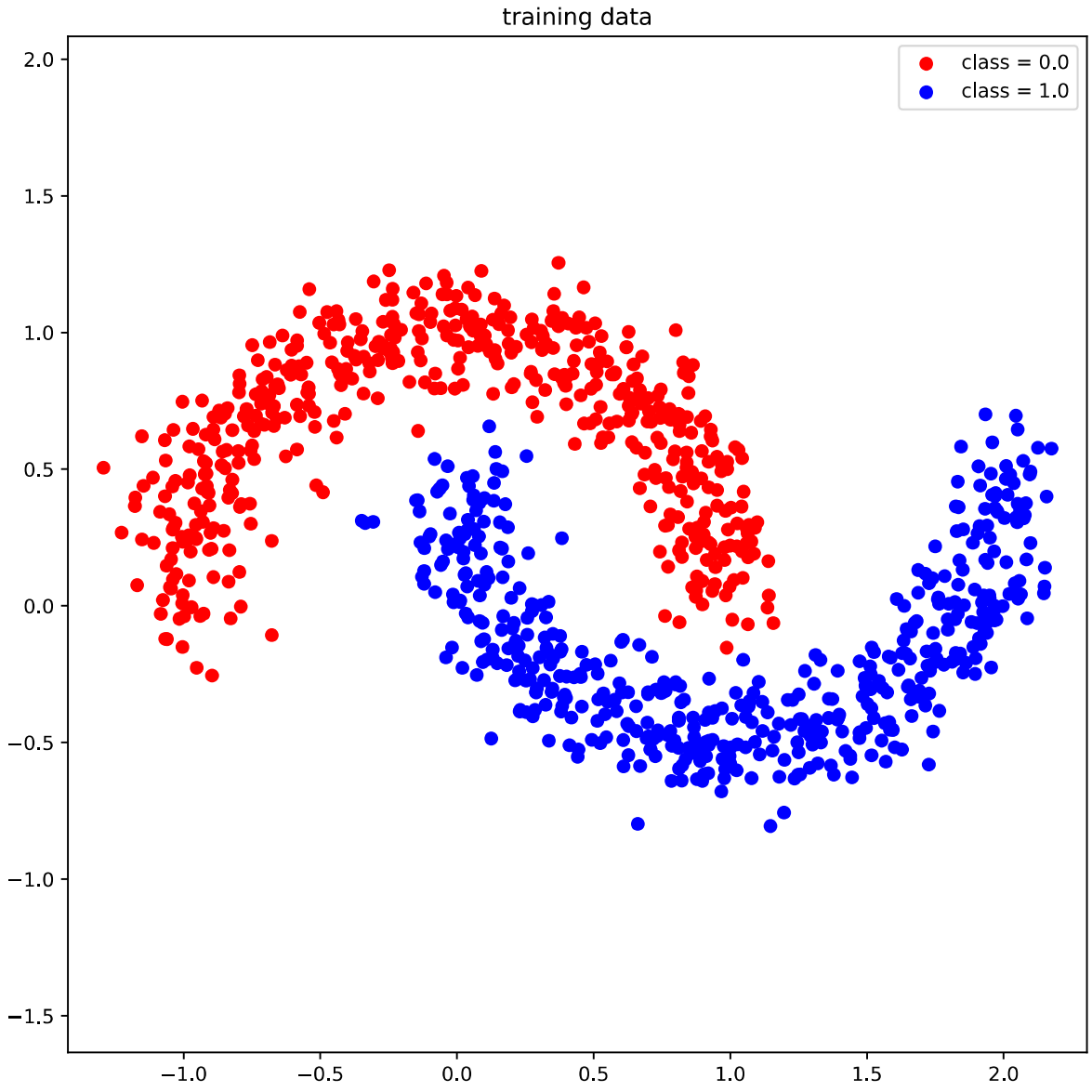
01. plot the input data (data1) from the file [assignment_09_data1.txt] in blue for class 0 and in red for class 1

In [ ]:
```
plot_data(data1)
```



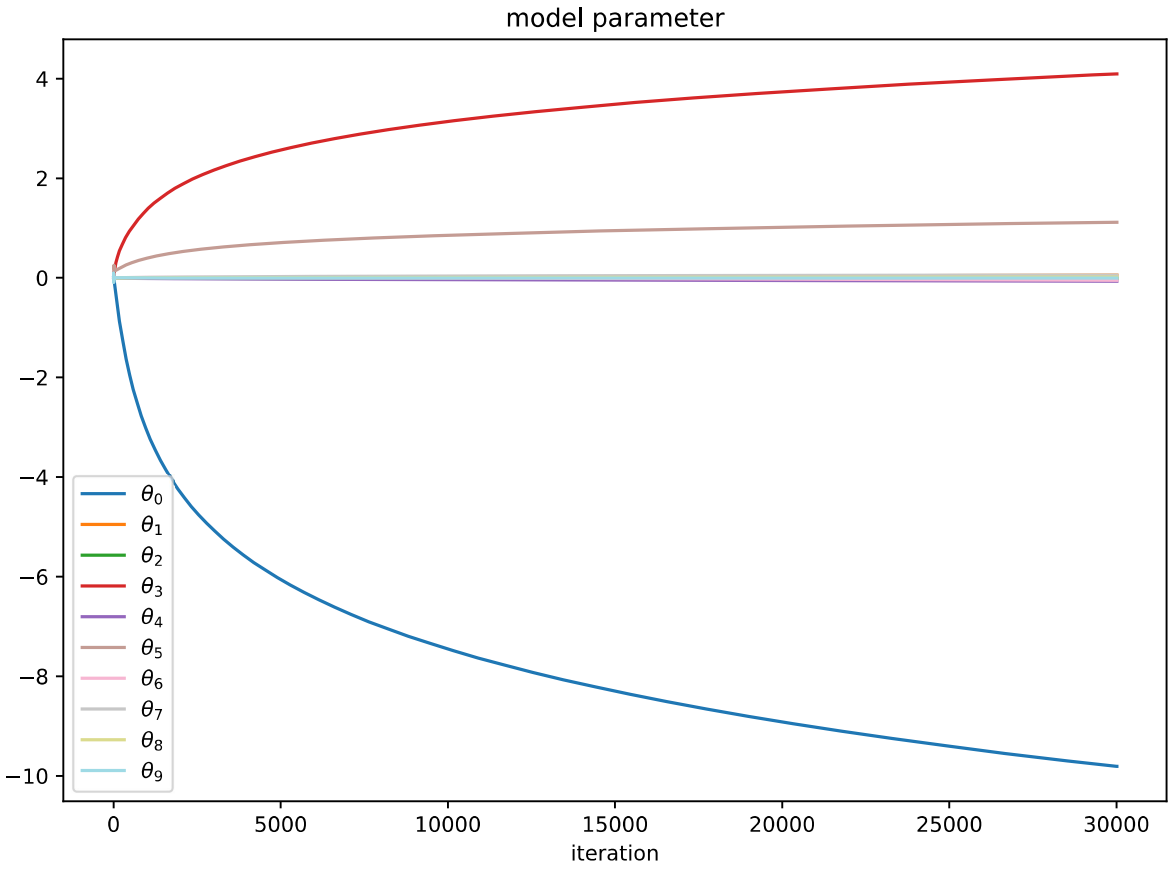
02. plot the input data (data2) from the file [assignment_09_data2.txt] in blue for class 0 and in red for class 1

In [ ]:
```
plot_data(data2)
```



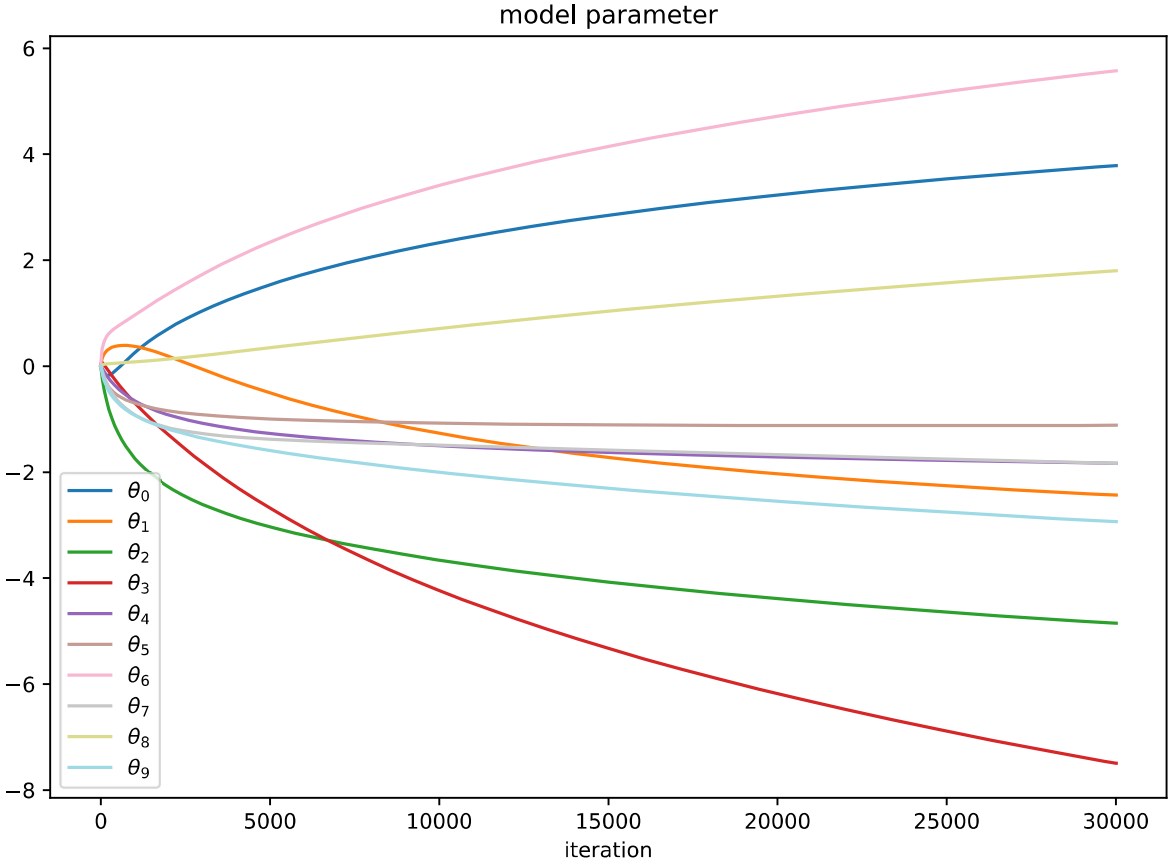
03. plot the values of the model parameters θ as curves over the gradient descent iterations using different colors for data1

In [ ]:
```
plot_model_parameter(theta1_iteration)
```



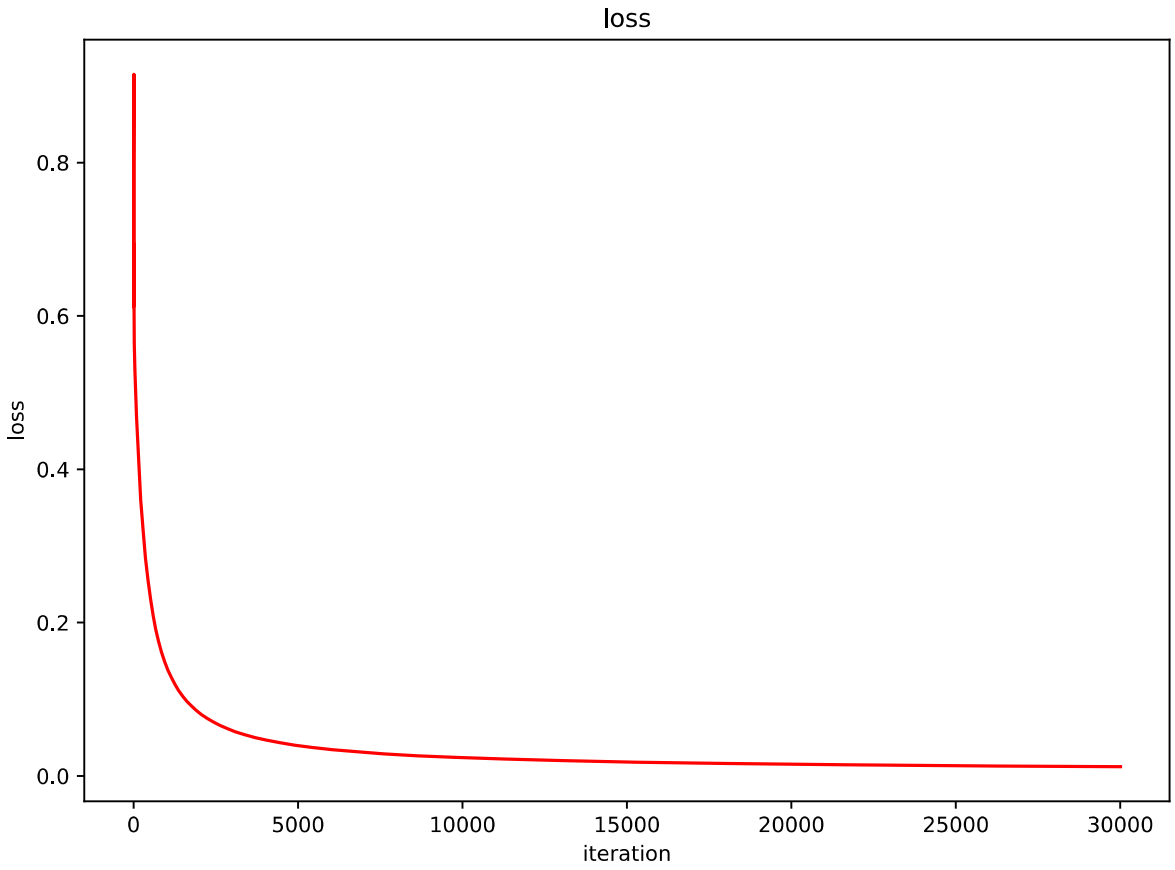
04. plot the values of the model parameters θ as curves over the gradient descent iterations using different colors for data2

In [ ]:
```
plot_model_parameter(theta2_iteration)
```



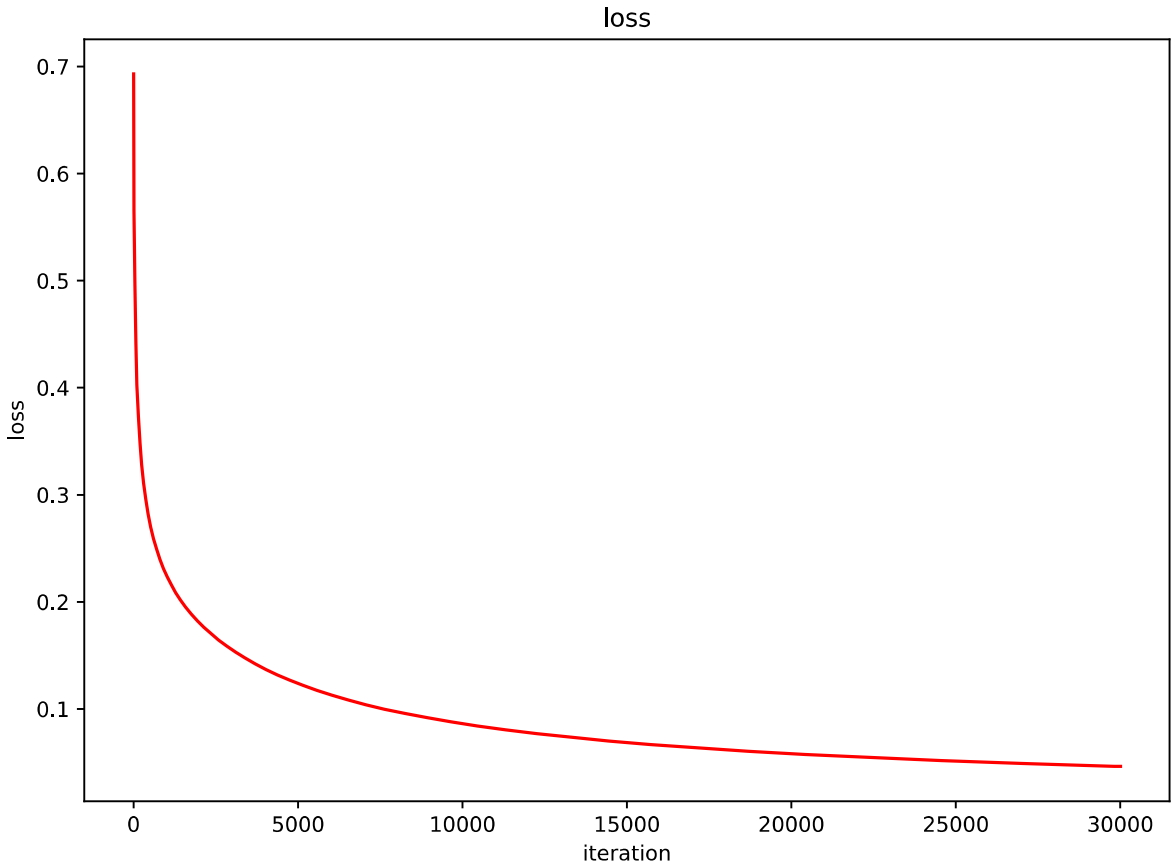
05. plot the loss values in red curve over the gradient descent iterations for data1

In [ ]:
```
plot_loss_curve(loss1_iteration)
```



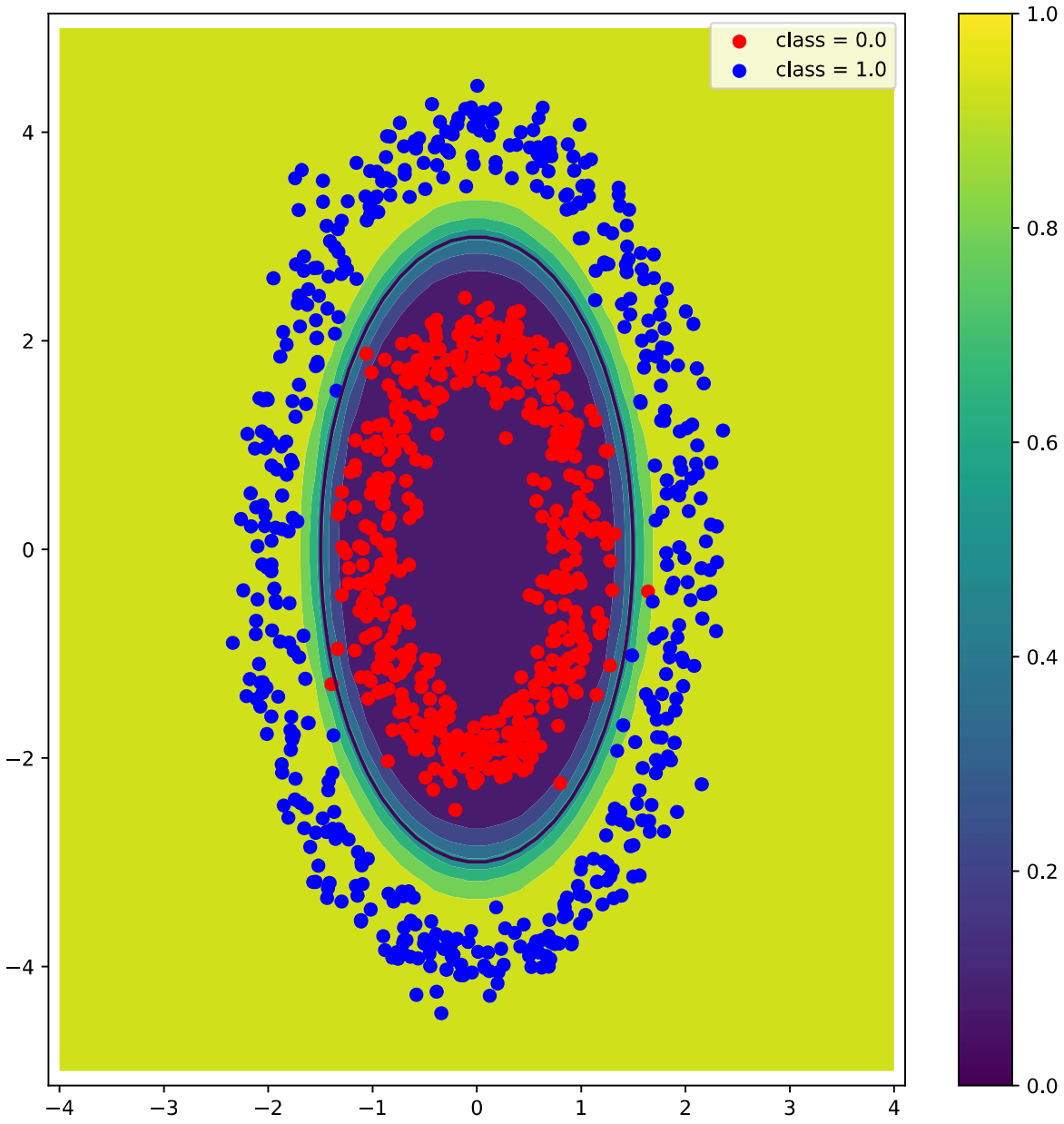
06. plot the loss values in red curve over the gradient descent iterations for data2

In [ ]:
```
plot_loss_curve(loss2_iteration)
```



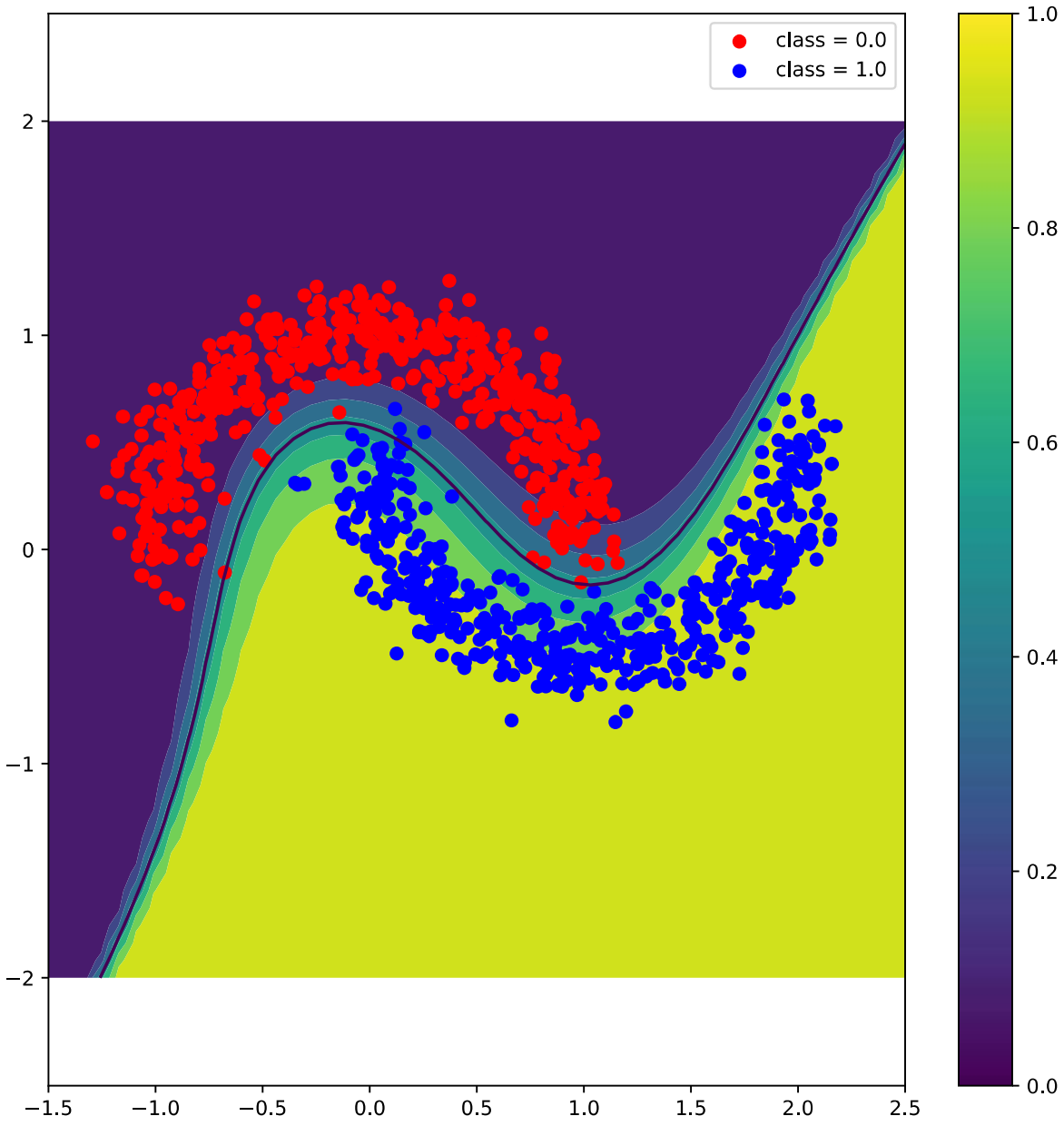
07. plot the classifier with the given data points superimposed for data1

In [ ]:
```
plot_classifier1(data1, theta1_optimal)
```



08. plot the classifier with the given data points superimposed for data2

In [ ]:
```
plot_classifier2(data2, theta2_optimal)
```



09. print out the accuracy of the obtained classifier1 for data1

In [ ]:
```
print(accuracy_classifier1)
```

0.999

10. print out the accuracy of the obtained classifier2 for data1

In [ ]:
```
print(accuracy_classifier2)
```

0.99

In [ ]:
```

```