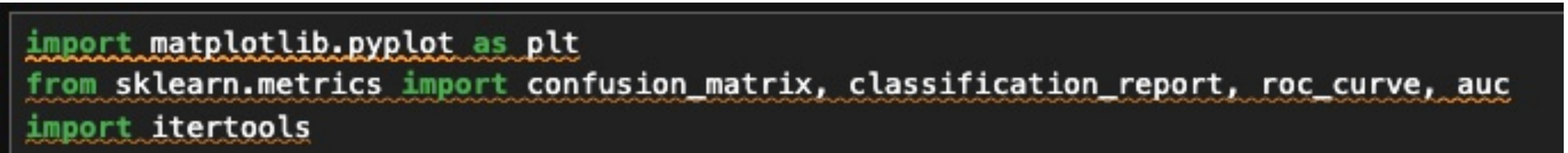
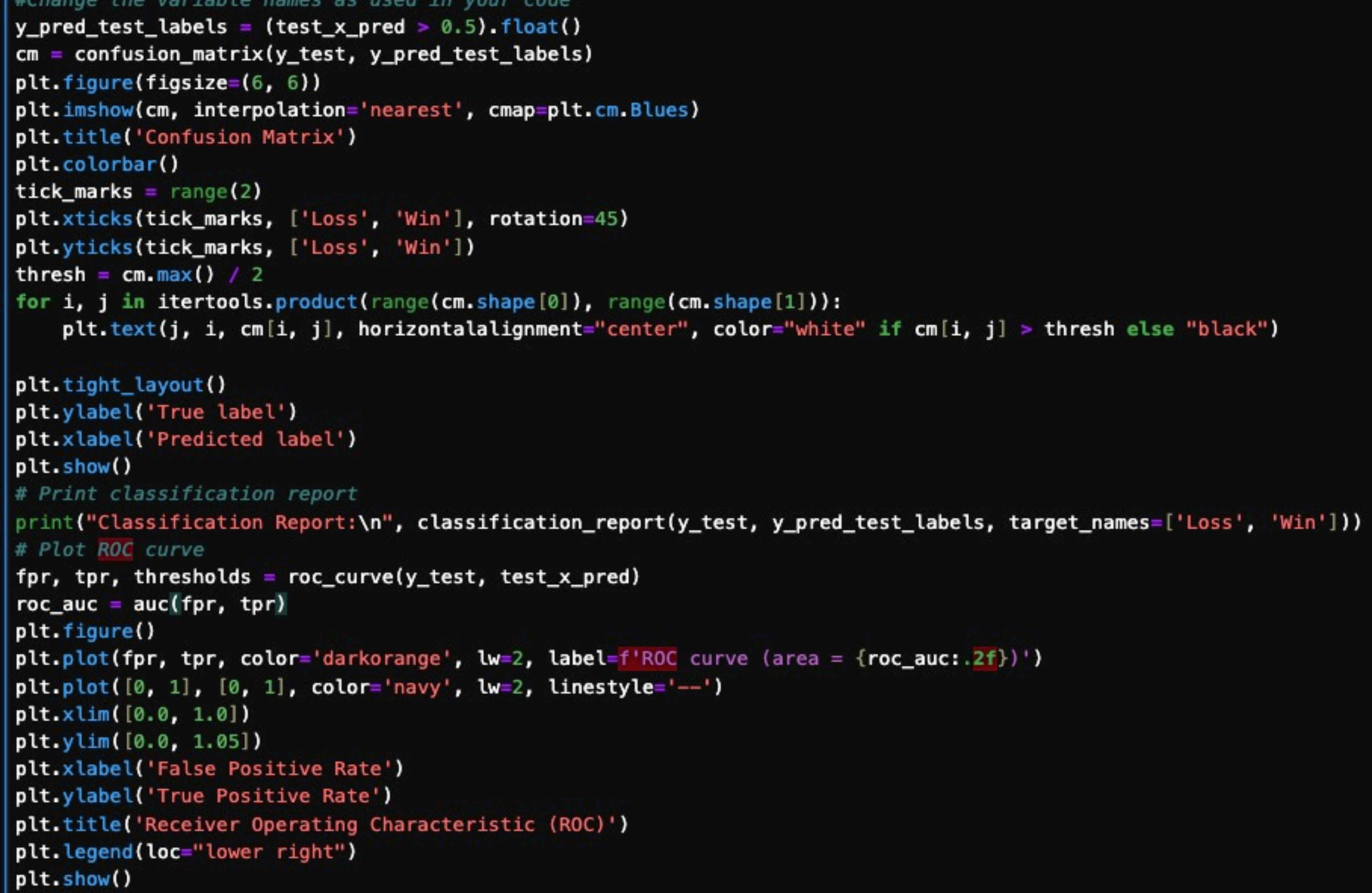
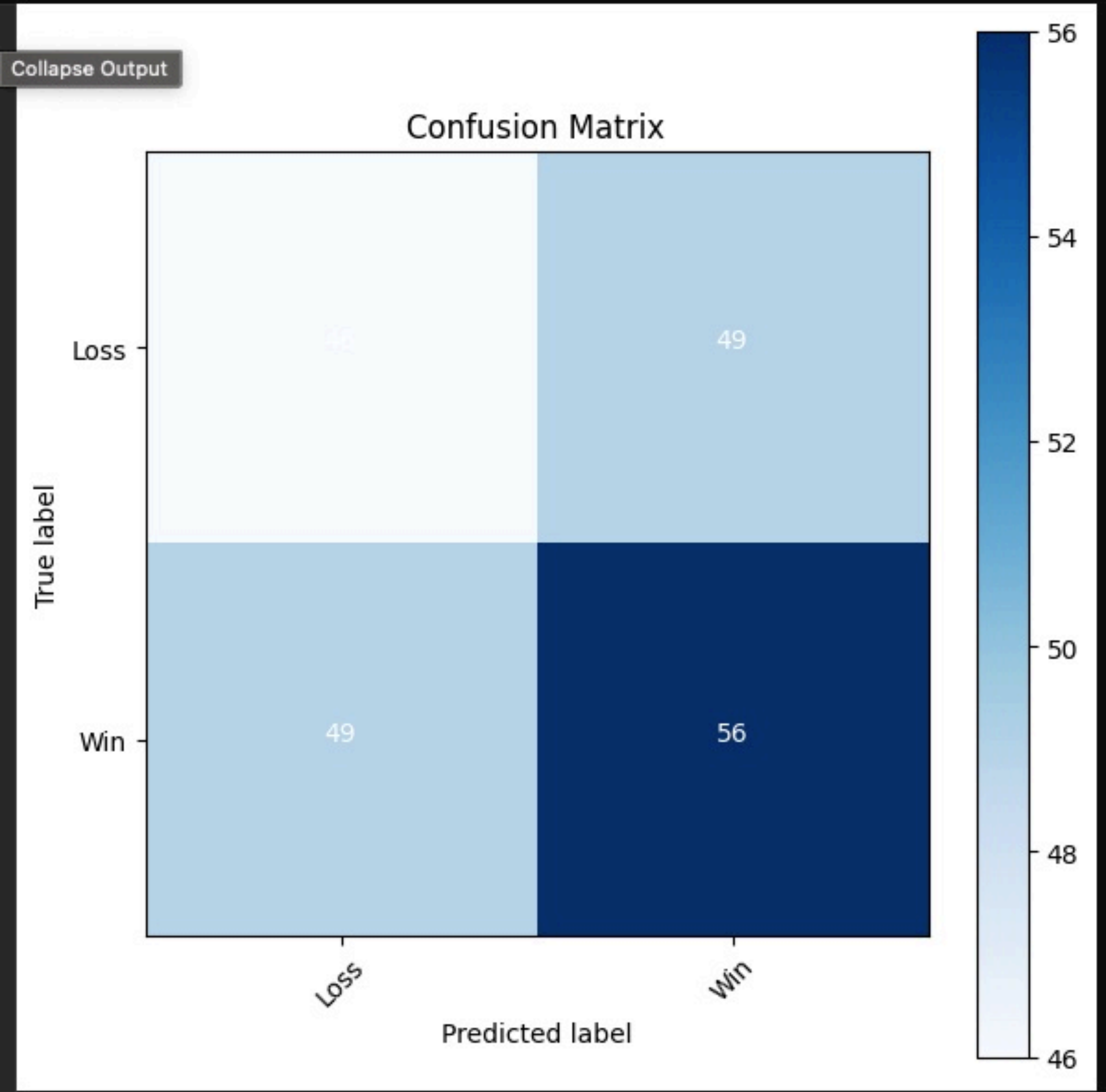


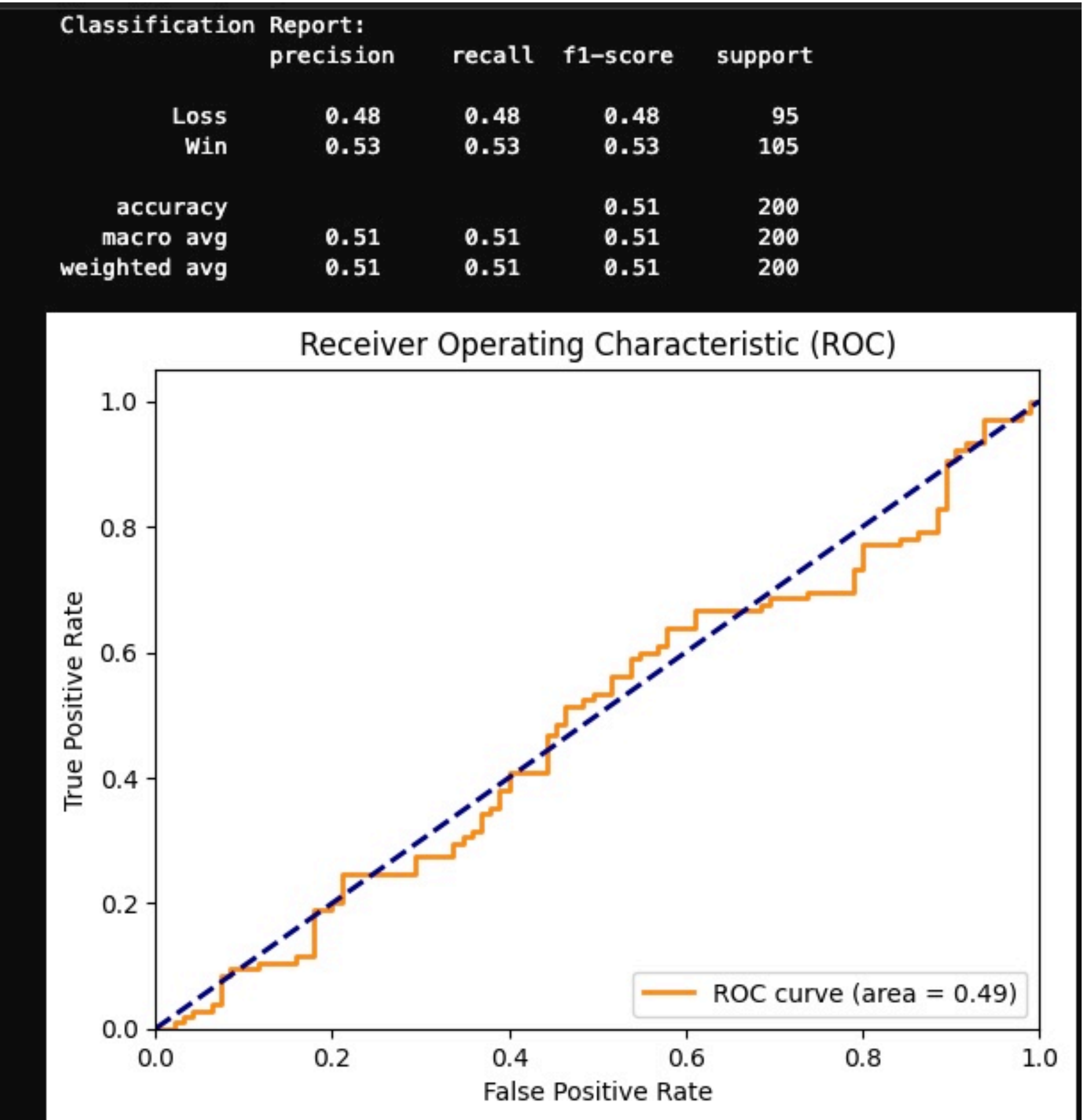
```python
import matplotlib.pyplot as plt
from sklearn.metrics import confusion_matrix, classification_report, roc_curve, auc
import itertools
```



```
#change the variable names as used in your code
y_pred_test_labels = (test_x_pred > 0.5).float()
cm = confusion_matrix(y_test, y_pred_test_labels)
plt.figure(figsize=(6, 6))
plt.imshow(cm, interpolation='nearest', cmap=plt.cm.Blues)
plt.title('Confusion Matrix')
plt.colorbar()
tick_marks = range(2)
plt.xticks(tick_marks, ['Loss', 'Win'], rotation=45)
plt.yticks(tick_marks, ['Loss', 'Win'])
thresh = cm.max() / 2
for i, j in itertools.product(range(cm.shape[0]), range(cm.shape[1])):
    plt.text(j, i, cm[i, j], horizontalalignment="center", color="white" if cm[i, j] > thresh else "black")

plt.tight_layout()
plt.ylabel('True label')
plt.xlabel('Predicted label')
plt.show()
# Print classification report
print("Classification Report:\n", classification_report(y_test, y_pred_test_labels, target_names=['Loss', 'Win']))
# Plot ROC curve
fpr, tpr, thresholds = roc_curve(y_test, test_x_pred)
roc_auc = auc(fpr, tpr)
plt.figure()
plt.plot(fpr, tpr, color='darkorange', lw=2, label=f'ROC curve (area = {roc_auc:.2f})')
plt.plot([0, 1], [0, 1], color='navy', lw=2, linestyle='--')
plt.xlim([0.0, 1.0])
plt.ylim([0.0, 1.05])
plt.xlabel('False Positive Rate')
plt.ylabel('True Positive Rate')
plt.title('Receiver Operating Characteristic (ROC)')
plt.legend(loc="lower right")
plt.show()
```


Collapse Output
Confusion Matrix
True label
Loss
Win
49
49
56
Loss
Win
Predicted label
56
54
52
50
48
46



```
Classification Report:
              precision    recall  f1-score   support

        Loss       0.48      0.48      0.48        95
         Win       0.53      0.53      0.53       105

    accuracy                           0.51       200
   macro avg       0.51      0.51      0.51       200
weighted avg       0.51      0.51      0.51       200
```