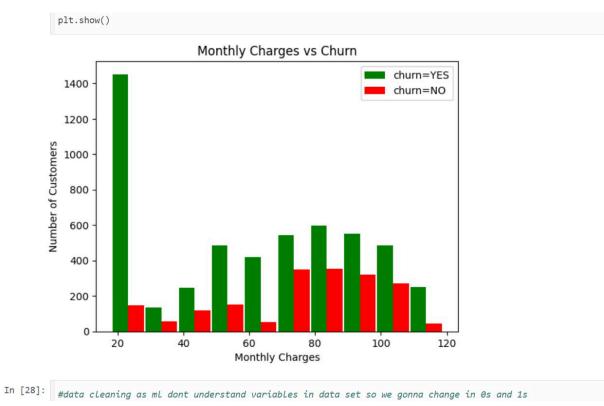


MONTHLY CHARGES V/S CHURN RATE BARPLOT



CLASSIFICATION REPORT

```
else:
             y_pred.append(0)
         y_pred[:10]
        44/44 — 0s 935us/step
Out[49]: [0, 1, 0, 1, 0, 1, 0, 0, 0, 0]
In [50]: from sklearn.metrics import confusion_matrix,classification_report
          print(classification_report(y_test,y_pred))
                     precision recall f1-score support
                                0.86
                  0
                          0.82
                                            0.84
                                                       999
                  1
                          0.61
                                  0.52
                                            0.56
                                                       408
           accuracy
                                             0.77
                                                      1407
          macro avg
                         0.71
                                   0.69
                                            0.70
                                                      1407
       weighted avg
                         0.76
                                   0.77
                                            0.76
                                                      1407
In [51]: #confusion matrix
          import seaborn as sn
          cm=tf.math.confusion_matrix(labels=y_test,predictions=y_pred)
          plt.figure(figsize=(10,7))
          \verb|sn.heatmap(cm,annot=True,fmt="d")|\\
          plt.xlabel("Predicted")
          plt.ylabel("Truth")
```

CONFUSION MATRIX

