Assignment 3 (Output)

```
        max_depth=2, rounded=True)
plt.show()
```

```
First 5 rows of dataset:
   Serial No.  GRE Score  TOEFL Score  University Rating  SOP  LOR  CGPA  \
0           1        337          118                  4  4.5  4.5  9.65
1           2        324          107                  4  4.0  4.5  8.87
2           3        316          104                  3  3.0  3.5  8.00
3           4        322          110                  3  3.5  2.5  8.67
4           5        314          103                  2  2.0  3.0  8.21

   Research  Chance of Admit
0         1             0.92
1         1             0.76
2         1             0.72
3         1             0.80
4         0             0.65

Accuracy: 0.9125

Classification Report:
              precision    recall  f1-score   support

           0       0.93      0.91      0.92        47
           1       0.88      0.91      0.90        33

    accuracy                           0.91        80
   macro avg       0.91      0.91      0.91        80
weighted avg       0.91      0.91      0.91        80
```

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

           0       0.93      0.91      0.92        47
           1       0.88      0.91      0.90        33

    accuracy                           0.91        80
   macro avg       0.91      0.91      0.91        80
weighted avg       0.91      0.91      0.91        80

Confusion Matrix:
 [[43  4]
 [ 3 30]]
```