```
 1 "C:\Program Files\python310\python.exe" C:/Users/
   prati/PycharmProjects/pythonProject9/practical5.py
 2    admit     gre    gpa    rank
 3 0    0.0   380.0   3.61    3.0
 4 1    1.0   660.0   3.67    3.0
 5 2    1.0   800.0   4.00    1.0
 6 3    1.0   640.0   3.19    4.0
 7 4    0.0   520.0   2.93    4.0
 8 Optimization terminated successfully.
 9          Current function value: 0.565088
10          Iterations 6
11                           Logit Regression Results

12 ============================================================
   ========================
13 Dep. Variable:                      admit   No.
   Observations:                 320
14 Model:                          Logit   Df Residuals
   :                     316
15 Method:                           MLE   Df Model
   :                       3
16 Date:                Fri, 17 May 2024   Pseudo R-squ
   .:                 0.09016
17 Time:                        02:08:38   Log-
   Likelihood:                -180.83
18 converged:                        True   LL-Null
   :                    -198.75
19 Covariance Type:            nonrobust   LLR p-value
   :                 8.100e-08
20 ============================================================
   ========================
21                 coef    std err          z        P>|z
   |     [0.025      0.975]
22 ----------------------------------------------------------
   ------------------------
23 const          -3.4005      1.288     -2.639        0.
   008      -5.926      -0.875
24 gre             0.0017      0.001      1.411        0.
   158      -0.001       0.004
25 gpa             0.8911      0.371      2.401        0.
   016       0.164       1.618
```

```
26 rank              -0.6159         0.143        -4.304          0.
   000          -0.896          -0.335
27 ================================================
   =========================
28 Accuracy of the logistic regression model: 0.6625
29
30 Process finished with exit code 0
31
```