```python
from scipy.stats import chi2_contingency
chi2, p, dof, expected = chi2_contingency(cm)
print(f"Chi-Squared Statistic: {chi2:.2f}")
print(f"p-value: {p:.4f}")

alpha = 0.05
if p < alpha:
    print("Reject the null hypothesis: There is a significant association between actual and predicted classifications.")
else:
    print("Fail to reject the null hypothesis: There is no significant association between actual and predicted classifications.")
```

```
Chi-Squared Statistic: 0.42
p-value: 0.5186
Fail to reject the null hypothesis: There is no significant association between actual and predicted classifications.
```