INTERACTION PRACTICAL: Logistic regression

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Generate data on gender admission patterns into a school's departments A to F using the following code:

a) Model the admission probability using a logistic regression with an interaction. The codes below will help in this:

b) Where possible, interpret all the model coefficients. May use the code :

```
exp(coef(glm.out)) #to obtain the odds ratios.
```

c) Fit a model without an interaction term. Use Likelihood Ratio Test to check the need for interaction term.