Assignment 1

Note: Please **DO NOT** hand in your assignments in the format of including all details of R outputs. You should present your results in summary format only with R outputs that are required to support your answers.

1. The data for this question comes from a study of teenage gambling in Britain. The variables are:

```
sex: 0=male, 1=female
socio-economic status: a score based on parents' occupation
income: in pounds per week
verbal score:  words out of 12 correctly defined
expenditure on gambling: pounds per year
```

   a. Make a numerical and graphical summary of the data, commenting on any features that you find interesting. Limit the output you present to a quantity that a busy reader would find sufficient to get a basic understanding of the data.
   b. Is this observational or experimental data? Explain your reasoning.

2. The data for this question comes from some research into the production of textiles. This data contains the following variables:

```
press: durable press rating
HCHO: formaldehyde concentration
catalyst: catalyst ration
temp: curing temperature
time: curing time
```

   When you read the data in, note that the first line of labels is the same length as the other row. To ensure that R recognizes the first line as column labels and not data, use

```
> read.table(..., header=TRUE)
```

   a. Do some short numerical and graphical summaries of the data, commenting on any features that you find interesting.
   b. Is this observational or experimental data? Explain your reasoning.