**Scenario:**

Data were collected from women at Baystate Medical Center, Springfield, Mass during 1986. The **birthwt data frame** has 189 rows and 10 columns (see attached dataset).

**Description of variables:**

* low: indicator of birth weight less than 2.5 kg.
* age: mother's age in years.
* lwt: mother's weight in pounds at last menstrual period.
* race: mother's race (1 = white, 2 = black, 3 = other).
* smoke: smoking status during pregnancy.
* ptl: number of previous premature labours.
* ht: history of hypertension.
* ui: presence of uterine irritability.
* ftv: number of physician visits during the first trimester.
* bwt: birth weight in grams.

**Tasks:**

Given above research data:

1. State your research study problem and objectives (10%)
2. Do a review of literature to support your research problem and objectives (10%)
3. Choose statistical analyses to answer your research problems and justify why you chose them (10%)
4. Analyze and interpret data. Show your raw statistical print outs (10%)
5. Present results of data analysis in narrative format, tables and graphs (30%)
6. Discuss the results of your study citing ROL as needed (15%)
7. Write your conclusions and recommendations for the study (15%)