You need to work through the HDS pipeline to address these questions:

**1. Research Question 1: Mortality Prediction in ICU**

 Is it possible to accurately predict mortality based on data from the first 24 hours in ICU?

**2. Research Question 2: Weekend Effect in ICU**

Does admission to ICU over the weekend increase the risk of mortality?

In addressing these research questions you should:

**1. Data (5% of the course mark) - Ideally due end of Week 1 (Sunday 15 September)**

* Complete the required CITI data access training.

**2. Plan (15 % of the course mark) - Due end of Week 3 (Sunday 29 September)**

* Consider your intended approach.
* Be detailed enough to be convey how you plan to tackle the project.
* Approximately 500 words.  The intention is to devise a plan for project completion.  A full study protocol is not required.
* The plan should include the following sections:
  + Overview
    - Any literature review or summary of the studies that have explored similar research questions (could be using MIMIC or any other data source)
  + Methods
    - Which approach will you use to answer the research questions.
    - What inclusion/exclusion criteria will you apply
    - Which EDA will you perform
    - Description of the analytical method for each research question
    - Which software will you use
  + Timelines
    - Weekly timelines you plan to undertake
  + Outline of final reporting structure.

**3. Final report (80%) - Due Friday of Week 11 (22 November) & eligible for 2-day short extension**

* Approximately 2,500 words. The report is likely to include details of:
  + Brief background to area of investigation.
  + Methods section
  + Results section
  + Discussion and conclusions
* Be prepared using literate programming tools.