The "breast cancer dataset" in CANVAS was obtained from the University of Wisconsin Hospitals, Madison from Dr. William H. Wolberg. The features in the dataset, described below, have been categorized from 1 to 10. Use these categorized features to answer the following questions. Important: make sure your categories are represented by the "factor" data type in R and DO NOT replace the missing values.

Features	Domain
Sample code number F1. Clump Thickness F2. Uniformity of Cell Size F3. Uniformity of Cell Shape F4. Marginal Adhesion F5. Single Epithelial Cell Size F6. Bare Nuclei F7. Bland Chromatin F8. Normal Nucleoli F9. Mitoses Diagnosis Class:	id number  1 - 10  1 - 10  1 - 10  1 - 10  1 - 10  1 - 10  1 - 10  1 - 10  1 - 10  1 - 10  (2 for benign, 4 for malignant)
Diagnosis Ciass.	(2 TOT Denity 11, 4 TOT marry name)

- 6.1
  Use the C5.0 methodology to develop a classification model for the Diagnosis.
- 6.2 Use the Random Forest methodology to develop a classification model for the Diagnosis and identify important features.