**Instructions: R programming**

In "T2DRecords.csv" data above, five independent variables are used to predict the probability that a patient has type 2 diabetes. The independents are:

**BodyWeight:**Each patient's body weight reported in the survey.

**GymVisits:**Each patient's number of visits to gyms every week.

**State:**In which state each patient is current residing in. The assumption is certain local diet may increase the risk of getting type 2 diabetes.

**SurgarIntake:**The average amount of sugar each patient takes every week.

**ChLevel:**Each patient's cholesterol level measured in this survey.

The dependent variable in this data set is **T2D**with 1 indicating a patient has type 2 diabetes and 0 indicating a patient does not have type 2 diabetes.

**Questions:**  
1. Build a logistic regression model, and use all given independent variables to predict the probability that a patient has type 2 diabetes. In your assignment submission, please make a screen capture of your analysis results. Please indicate which independent variables are significant, and the practical implications if they are significant.   
  
2. Build a decision tree model, and use all given independent variables to predict the probability that a patient has type 2 diabetes. In your assignment submission, please make a screen capture of your analysis results. Also, create a decision tree diagram to visualize your analysis.

Please save the screenshot of the analysis results and your interpretations of the results into a Word document, and name it as "MyAssignment2".