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| **Experiment #** | **Unit #** | **Name of Experiment** | **Remarks** |
| **1** | **2** | **1. a) Import a CSV file, summarize the file and plot any two numeric columns of the file.**  **b) Import a CSV file using radio.delim () function and add a suitable column of suitable name. Export this file which was modified as tab delimeted without row names.** |  |
| **2** | **2** | **2)Below we have results of a simple experiment to look at the visitation of various bee species to different plants.The number of bees observed was as follows.**  **i)Buff Tail:10 1 37 5 12**  **ii)Garden bee:8 3 9 6 4**  **iii)Red Tail:18 9 12 4**  **iv)Carder bee: 8 27 6 32 23**  **v)Honey Bee: 12 13 16 9 10**  **Make five simple numeric vectors of these data. Next join the bee vectors together to make a data frame. Each row of the resulting frame relates to specific plant, the plant names are Thistle,Vipers,Golden Rain,Yellowalfala and blackberry. Use these names to create row labels for the data.** |  |
| **3** | **2** | **3.a)Create a matrix object from the data that is given in the above question 2. Make a List using the plant names from above as an object to include in the list along with the original data.**  **3.b)Create a List of data objects of type Numeric , String, Real Numbers and name them.** |  |
| **4** | **2** | **a)Using the dataset *Cabbage\_exp* ( import from library gcookbook) create a bargraph as shown below for the *cultivar* field.**  **b)Create a BoxPlot using the dataset *BirthWt* (import from library gcookbook) with the x axis as *ageyear* and y axis as *height*.** |  |
| **5** | **2** | **a)Populate two data sets using random function or by importing csv file and perform the following statistical tests for the above two observations.**  **i)Two sided Hypothesis Test at 0.05 significance level.**  **ii)Perform Student T test.** |  |
| **6** | **3** | **Perform a K-Means Clustering model by importing a suitable data set and show the results on R console** |  |
| **7** | **3** | **Perform a Linear Regression Model by creating or importing a suitable dataset and plot the model using graphics package on R console.** |  |
| **8** | **3** | **Perform a Naïve Bayes classification model by importing a suitable data set and show the results on R console.** |  |
| **9** | **3** | **Perform a Decision Tree classification model by importing a suitable data set and plot the model using graphics package on R console.** |  |
| **10** | **4** | **Display and perform multivariate data matrix plots in one window.** |  |