
2. (a) Consider the following data on weights of 55 students
$42,74,40,60,82,115,41,61,75,83,63,53,110,76,84,50,67,65,78,77,56$, $95,68,69,104,80,79,79,54,73,59,81,100,66,49,77,90,84,76,42,64$, $69,70,80,72,50,79,52,103,96,51,86,78,94,71$.

Write a R program to construct a frequency distribution and draw the histogram. Give R command to calculate cumulative frequencies.
(b) What are the data types in R?
(c) Write a R program to create a matrix taking a given vector of numbers as input and define the column and row names.
3. (a) Use sample function to create a vector of size 100 from the integers $1,2, \ldots, 10$. Write a R programme to construct a frequency distribution of the data and draw bar graph.
(b) Write a R programme to calculate the mean, median and mode of the data in (a).
(c) Write a R programme to simulate a unbiased dice rolling.
4. (a) Write a R programme to read a data from .xlsx file. What is read.table function?
(b) Write a R programme to construct a $3 \times 2 \times 4$ array. How to extract a $3 \times 2$ matrix from the array?
(c) Write a R programme to draw the graph of the circle.
(d) How can you fit a Poisson distribution to a data on misprints using R?

