INDEX

| SR.  No. | Title | Remarks |
| --- | --- | --- |
| 1 | Demonstrate Various Type of Command for Help in R. |  |
| 2 | Demonstrate Various Command for Packages in R. |  |
| 3 | How to Use R as a calculator and store the results in R. |  |
| 4 | Demonstrate the usage of variables, constants and built-in constants in R. |  |
| 5 | Demonstrate the usage of all the operators in R. |  |
| 6 | How to enter numerical and text items as data in R. |  |
| 7 | Demonstrate the usage of scan command. |  |
| 8 | How to show and set the default working directory in R. |  |
| 9 | Write a R script to take input from user for addition of two numbers. |  |
| 10 | Write a R script to input a number check if the number is positive or negative or zero. |  |
| 11 | Write a R script to check if the input number is odd or even. |  |
| 12 | Write a R script to find the multiplication table of inputted number. |  |
| 13 | Write a R script to find the factorial of a number without using factorial function. |  |
| 14 | Write a R script to check if the input number is prime or not. |  |
| 15 | Write a R script to check whether the number is palindrome or not. |  |
| 16 | Program to check if the input year is a leap year or not.  17.  18.  19. 20. 21. 22. |  |
| 17 | Create, access, modify and delete following data structures in R  a) Vectors  b) Lists  c) Data Frame  d) Factor  e) Matrix |  |
| 18 | Create a function to print squares of numbers in sequence. |  |
| 19 | Demonstrate various Numerical, Character and Statistical functions used in R. |  |
| 20 | The numbers below are the first ten days of rainfall amounts in 1996.Read them into a vector using the c() function 0.1, 0.6, 33.8, 1.9, 9.6, 4.3, 33.7, 0.3, 0.0, 0.1  a. What was the mean rainfall, how about the standard deviation?  b. Calculate the cumulative rainfall (’running total’) over these ten days.  Confirm that the last value of the vector that this produces is equal to the total sum of the rainfall.  c. Which day saw the highest rainfall? |  |
| 21 | Demonstrate the various function used for Graphical Analysis like creating boxplot, scatters plot, line graph and pie charts and bar chart. |  |
| 22 | Demonstrate Implementation of ANOVA in R Studio |  |