राष्ट्रीय प्रौद्योगिकी संस्थान वारंगल
National Institute of Technology Warangal | Department of Computer Science and Engineering

R Programming

Lab End Examination – Dec 2021

Branch: MCA

Date: 31 Dec 2021 Time: 10:30 AM to 1:00PM

Max. Marks: 40M

Task -1 (5M)

Write a R script to find total number of unique even numbers in a given vector of integers.

Task -2 (10M)

Write a R script to illustrate the

a) Relational operators (5M)
b) Miscellaneous operators (5M)

on various datatypes.

Note: Inputs should be read from standard input and output should be sent to a separate file 'my_reslut.txt'.

Task -3 (8M)

Write a R-script to display Fibonacci series up to given number N using functions. Where $N \geq 0$.

Note: Input should be read from keyboard.

Task -4 (5M)

Find the Kurtosis and skewness without using inbuilt function and draw the histogram for the following data. (5M)

8, 9, 56, 12, 3, 33, 23, 20, 19, 30, 44, 19, 90,3,55,67.

Task -5 (12M)

Income	Limit	Rating	Cards	Age	Education	Own	Student	Married	Region	Balance
14.891	3606	283	2	34	11	No	No	Yes	South	333
106.025	6645	483	3	82	15	Yes	Yes	Yes	West	903
104.593	7075	514	4	71	11	No	No	No	West	580
148.924	9504	681	3	36	11	Yes	No	No	West	964
55.882	4897	357	2	68	16	No	No	Yes	South	331
80.18	8047	569	4	77	10	No	No	No	South	1151
20.996	3388	259	2	37	12	Yes	No	No	East	203
71.408	7114	512	2	87	9	No	No	No	West	872
15.125	3300	266	5	66	13	Yes	No	No	South	279
71.061	6819	491	3	41	19	Yes	Yes	Yes	East	1350
63.095	8117	589	4	30	14	No	No	Yes	South	1407
15.045	1311	138	3	64	16	No	No	No	South	0
80.616	5308	394	1	57	7	Yes	No	Yes	West	204
43.682	6922	511	1	49	9	No	No	Yes	South	1081
19.144	3291	269	2	75	13	Yes	No	No	East	148
20.089	2525	200	3	57	15	Yes	No	Yes	East	0
53.598	3714	286	3	73	17	Yes	No	Yes	East	0
36.496	4378	339	3	69	15	Yes	No	Yes	West	368
49.57	6384	448	1	28	9	Yes	No	Yes	West	891

Figure 1: Credit.csv file contents

a). Write a R script to load Credit.csv file which has data shown in Fig. 1 and store it as an object called ‘credit’. (5M)

b). Write a SQL query to find the credit card details of all individuals whose age between 25 and 35 for each region from the ‘credit’ object. (7M)