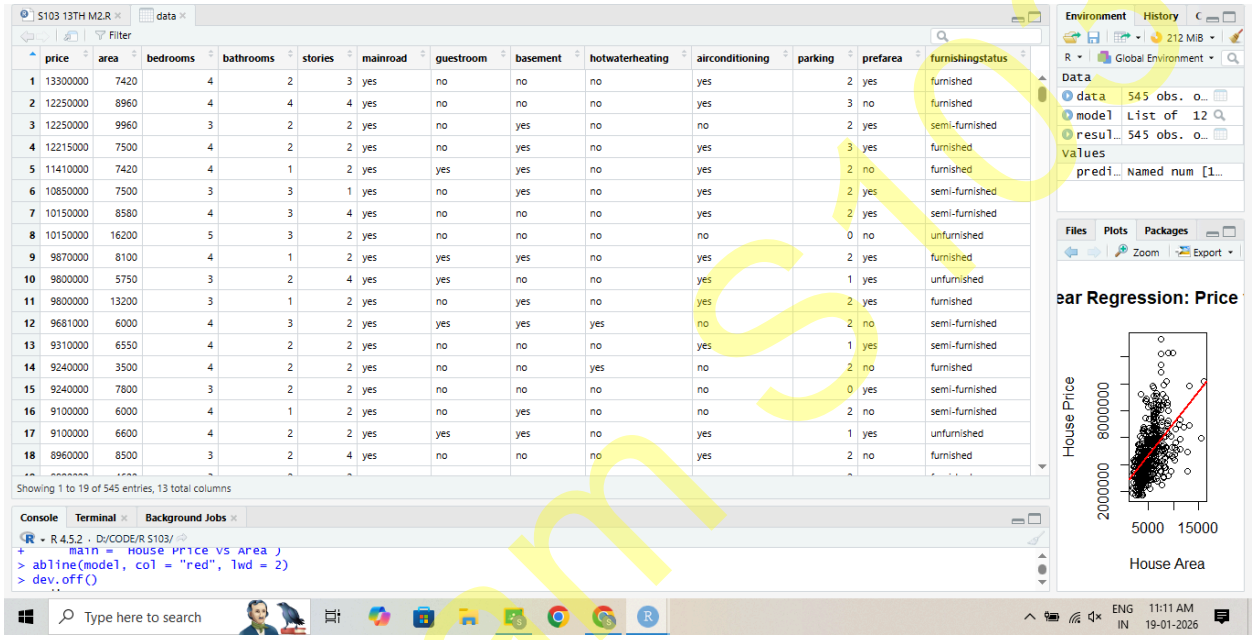
SHETH L.U.J. AND SIR M.V. COLLEGE
SUBJECT:Data Analysis with R

Aim: 13 Performing linear regression analysis using lm() (R).
14 Performing logistic regression using glm() (R).
15 Exporting results into external files (Excel, CSV, PDF) using write.csv() and writexl ®

13th output:
Dataset



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Sycs S103

SHETH L.U.J. AND SIR M.V. COLLEGE
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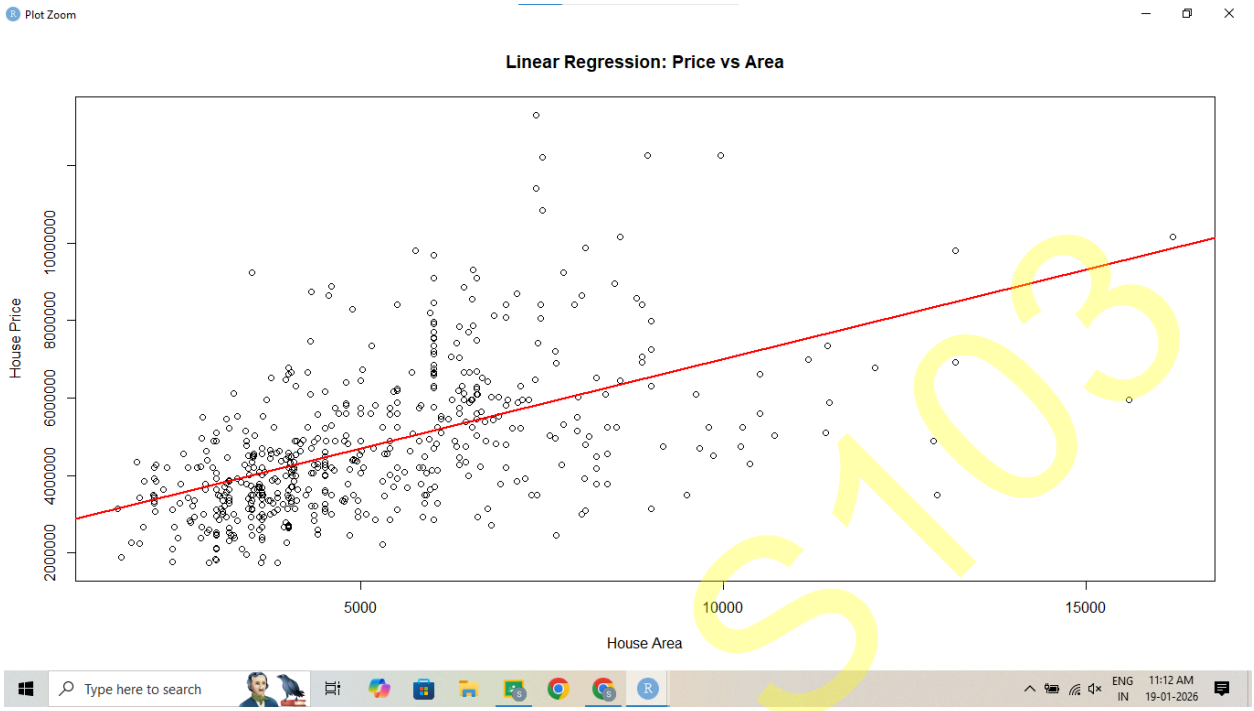
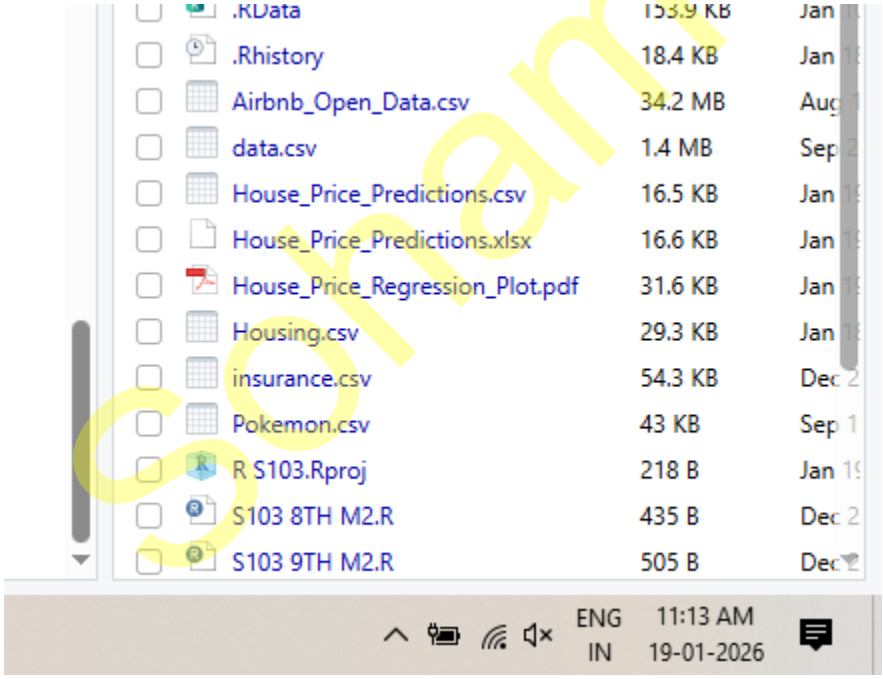
Graph



Export import



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Sycs S103

SHETH L.U.J. AND SIR M.V. COLLEGE
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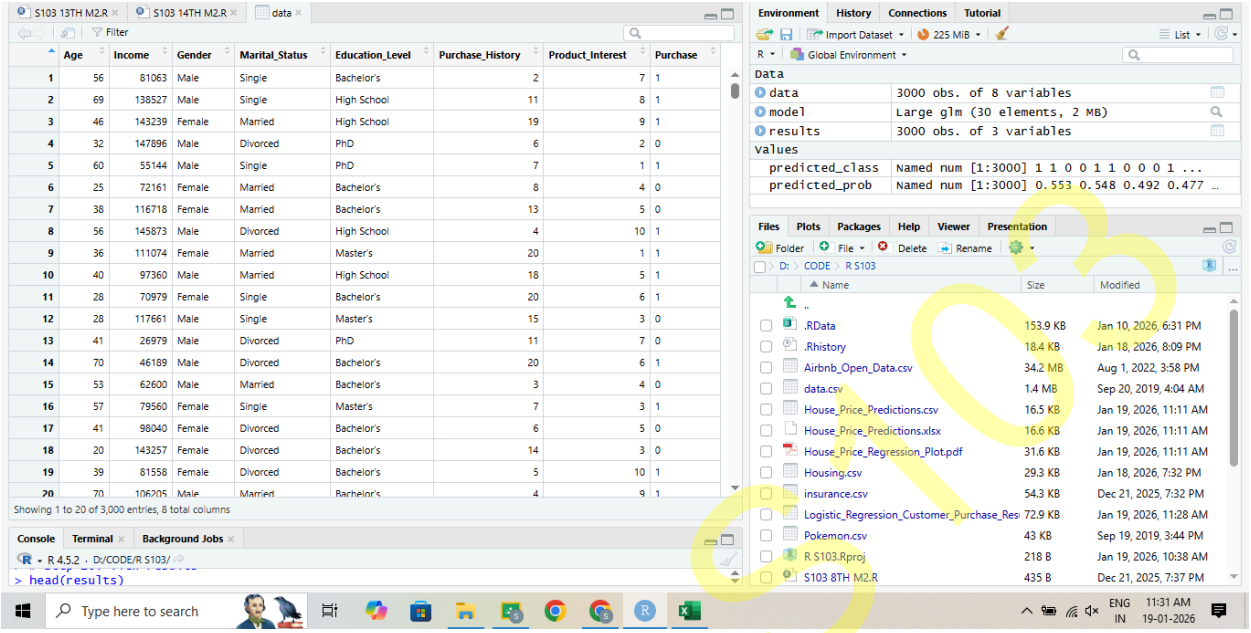
14th output

Dataset

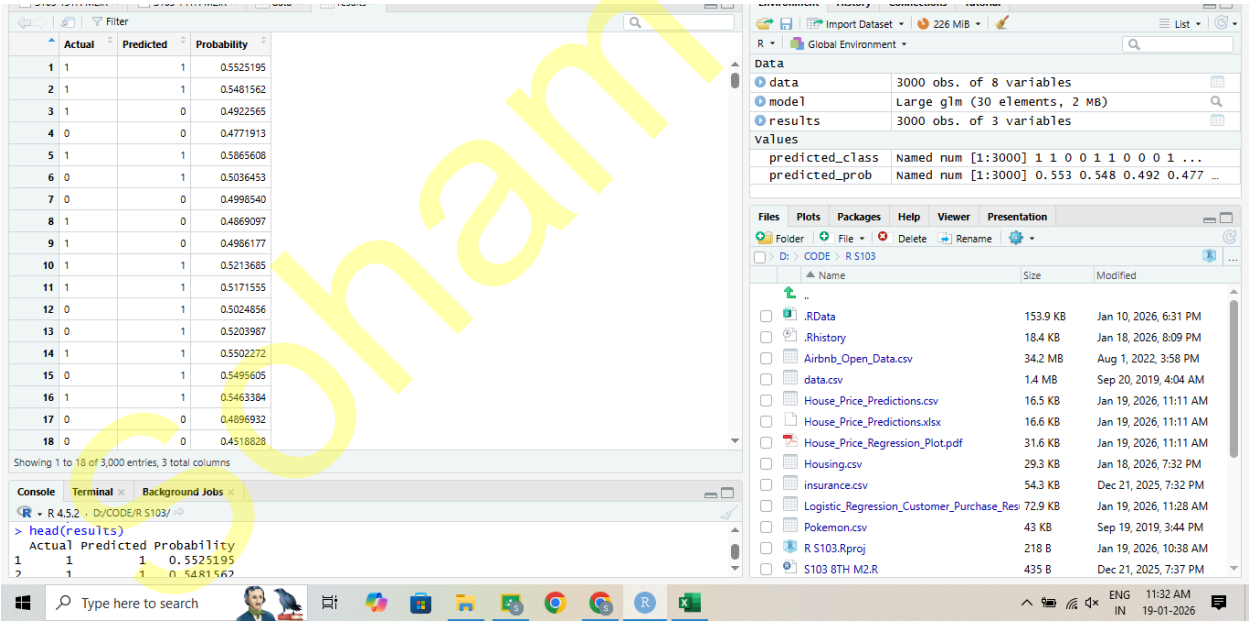


	Age	Income	Gender	Marital_Status	Education_Level	Purchase_History	Product_Interest	Purchase
1	56	81063	Male	Single	Bachelor's	2	7	1
2	69	138527	Male	Single	High School	11	8	1
3	46	143239	Female	Married	High School	19	9	1
4	32	147896	Male	Divorced	PhD	6	2	0
5	60	55144	Male	Single	PhD	7	1	1
6	25	72161	Female	Married	Bachelor's	8	4	0
7	38	116718	Female	Married	Bachelor's	13	5	0
8	56	145873	Male	Divorced	High School	4	10	1
9	36	111074	Female	Married	Master's	20	1	1
10	40	97360	Male	Married	High School	18	5	1
11	28	70979	Female	Single	Bachelor's	20	6	1
12	28	117661	Male	Single	Master's	15	3	0
13	41	26979	Male	Divorced	PhD	11	7	0
14	70	46189	Male	Divorced	Bachelor's	20	6	1
15	53	62600	Male	Married	Bachelor's	3	4	0
16	57	79560	Female	Single	Master's	7	3	1
17	41	98040	Female	Divorced	Bachelor's	6	5	0
18	20	143257	Female	Divorced	Bachelor's	14	3	0
19	39	81558	Female	Divorced	Bachelor's	5	10	1
20	70	106205	Male	Married	Bachelor's	4	9	1

Showing 1 to 20 of 3,000 entries, 8 total columns

```
> head(results)
```

Results



	Actual	Predicted	Probability
1	1	1	0.5525195
2	1	1	0.5481562
3	1	0	0.4922565
4	0	0	0.4771913
5	1	1	0.5865608
6	0	1	0.5036453
7	0	0	0.4998540
8	1	0	0.4869097
9	1	0	0.4986177
10	1	1	0.5213685
11	1	1	0.5171555
12	0	1	0.5024856
13	0	1	0.5203987
14	1	1	0.5502272
15	0	1	0.5495605
16	1	1	0.5463384
17	0	0	0.4896932
18	0	0	0.4518828

Showing 1 to 18 of 3,000 entries, 3 total columns

```
> head(results)
  Actual Predicted Probability
1      1         1   0.5525195
2      1         1   0.5481562
```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Sycs S103

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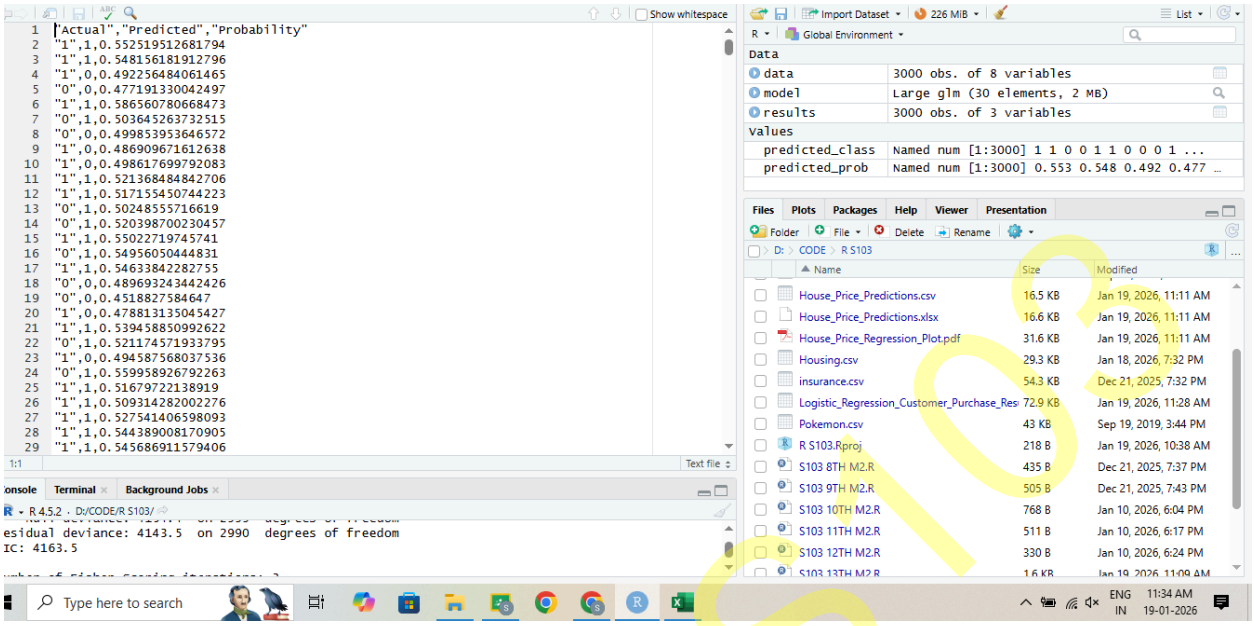
Exporting result in csv



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