MAT 2001- STATISTICS FOR ENGINEERS

EXPERIMENT-2

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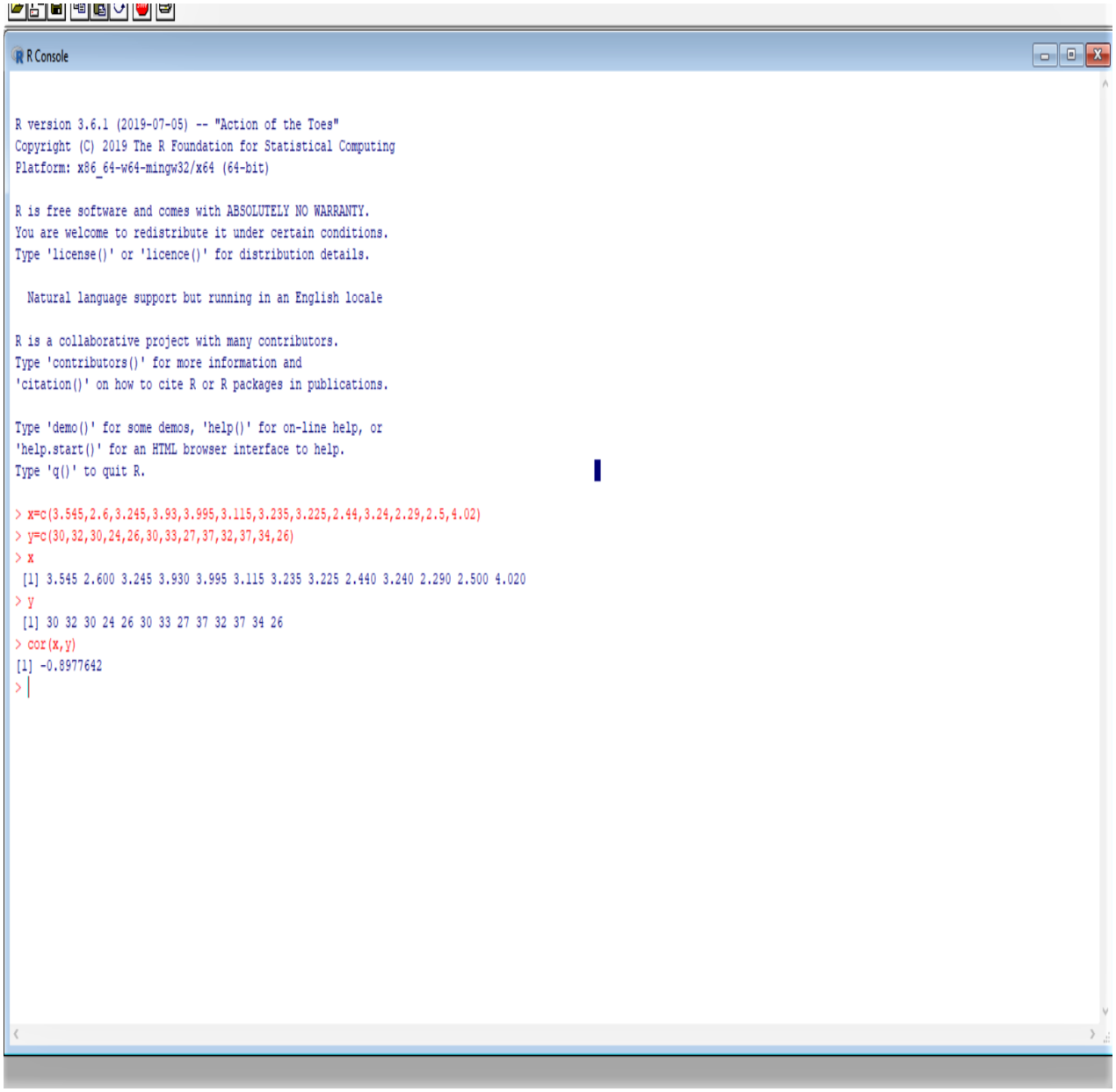
- **SLOT: - L13+L14**

Question 1: -

The following table gives the weight (x) (in 1000 lbs.) and highway fuel efficiency (y) (in miles/gallon) for a sample of 13 cars.

Vehicle	X	Y
Chevrolet Camaro	3.545	30
Dodge Neon	2.6	32
Honda Accord	3.23	30
Lincoln Continental	3.93	24
Oldsmobile Aurora	3.995	26
Pontiac Grand Am	3.115	30
Mitsubishi Eclipse	3.235	33
BMW 3-Series	3.225	27
Honda Civic	2.44	37
Toyota Camry	3.24	32
Hyundai Accent	2.29	37
Mazda Protégé	2.5	34
Cadillac DeVille	4.02	26



Correlation of x, y = -0.8977642

Question 2: -

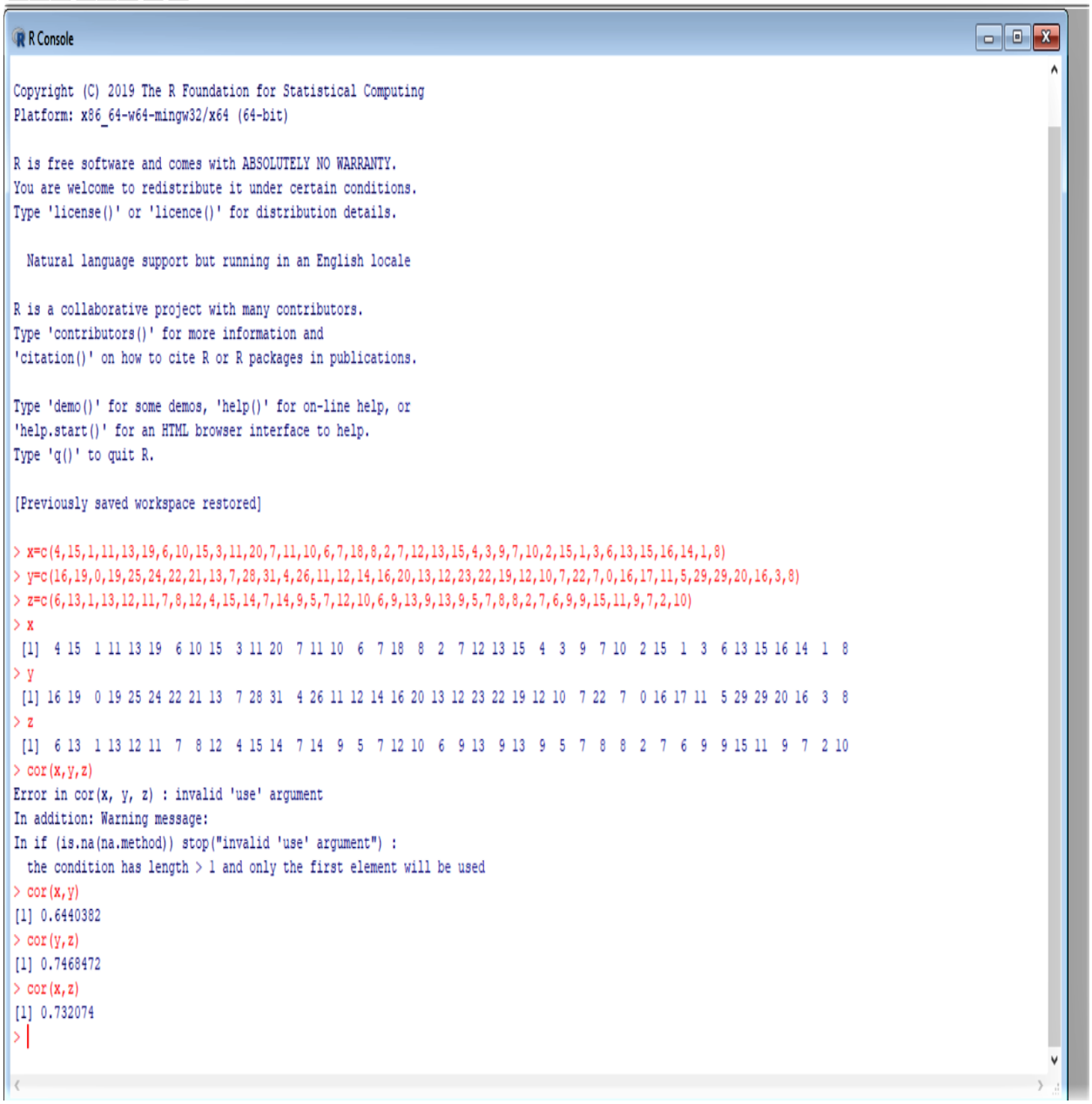
Find the Correlation between X and Y.

Find the Correlation between below data

Sol: -

ENJOY	BUY	READ
4	16	6
15	19	13
1	0	1
11	19	13
13	25	12
19	24	11
6	22	7
10	21	8
15	13	12
3	7	4
11	28	15
20	31	14
7	4	7
11	26	14
10	11	9
6	12	5
7	14	7
18	16	12
8	20	10

2	13	6
7	12	9
12	23	13
13	22	9
15	19	13
4	12	9
3	10	5
9	7	7
7	22	8
10	7	8
2	0	2
15	16	7
1	17	6
3	11	9
6	5	9
13	29	15
15	29	11
16	20	9
14	16	7
1	3	2
8	8	10



Cor (x,y) =0.6440382

Cor (y,z) = 0.7468472

Cor (x,z) = 0.732074

----------THANK YOU----------