R STUDIO - EXERCISE 4

QUESTION 1

Find the Karl-Pearson's coefficient of Correlation between X and Y for X=23,27,28,28,29,30,31,33,35,36 y=18,20,22,27,21,29,27,29,28,29

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> x=c(23,27,28,28,29,30,31,33,35,36)
> y=c(18,20,22,27,21,29,27,29,28,29)
> cor(x,y)
[1] 0.8176052
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QUESTION 2

Twelve recruits were subjected to selection test to ascertain their suitability for a certain course of training. At the end of training they were given a proficiency test. The marks scored by the recruits are recorded below:

| Recruit | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|-------------------------|----|----|----|----|----|----|----|----|----|----|----|----|
| Selection Test Score | 44 | 49 | 52 | 54 | 47 | 76 | 65 | 60 | 63 | 58 | 50 | 67 |
| Proficiency Test Scrore | 48 | 55 | 45 | 60 | 43 | 80 | 58 | 50 | 77 | 46 | 47 | 65 |

Fit a simple regression model of Proficiency test on selection test score.