1. Write a code that uses *rnorm* and generates bivariate normal distribution with mean (1,2), variance (1,1) and correlation 0.7. Generate 100 random samples and make a scatter plot. Does this picture confirm that the code is correctly implemented? Find out correlation from the generated numbers and make necessary conclusions.
2. Treat *a* and *b* as estimators and write an *R* code that computes jack-knife bias correction for *a* and *b*. Compare the original regression line with the jackknifed regression line.