DSR LAB

Lab: 2

IBH17CS022
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Q. Write R program to create a matrix of 4 rows and 2 columns. Load the data randomly using vector into the matrix. Calculate transpose, eigen, Inverse of matrix, then perform crossproduct of matrix operation. access subset of matrix elements of suitable rows & columns.

1. M ~~<-~~ matrix (nrow = 4, ncol = 2, data = c(1, 3, 5, 7, 9, 10, 11, 13), ~~byrow~~ byrow = True)

2. m1 <- t(M) # transpose of matrix

3. m2 <- eigen(M) # eigen matrix

4. ~~ans <- inv(M)~~

4. ~~M1~~ <- matrix (nrow = 3, ~~ncol~~ ncol = 3, data = (2,1,1,3,2,1,2,1,2), byrow = TRUE)

M1

m3 = solve (M1) # inverse of matrix

m3

5. crossprod (M1)

6. M1[1,]
M1[1:2]
M1[, 2:3]
M1 [, 2]