STAT5103 Assignment 3 (Due date: Friday Nov 9, 11:59pm) [Provide all your R-code]

Data: Car Mark Data (first column is car type, second to last column are X variables). The data are averaged marks for 23 car types from a sample of 40 persons. The marks range from 1 (very good) to 6 (very bad).

Variables

 X_1 : Economy

 X_2 : Service

 X_3 : Non-depreciation of value

 X_4 : Price, Mark 1 for very cheap cars

X₅: Design

*X*₆: Sporty car

*X*₇: Safety

*X*₈: Easy handling

Apply PCA to the data.