1. You have a dataset containing information about students' scores in different subjects. Your task is to implement a function that calculates the average score for a given subject. However, the function should handle cases where the specified subject is not present in the dataset. Use tryCatch to catch such exceptions and return an error message.

Assume you have a dataset in the following format:

# Sample dataset

students <- data.frame(

Name = c("Alice", "Bob", "Charlie", "David"),

Math = c(80, 90, 75, 85),

English = c(85, 88, 92, 78),

History = c(70, 65, 80, 88)

)

2. Create an ordered factor named height with levels "Short", "Average", "Tall" and use it to represent height categories.

3. Write an if-else statement that checks if a variable y is even or odd. Print "Even" if true, and "Odd" if false.

4. Use a switch statement to print the month name based on the month number.

5. Implement nested loops to create a multiplication table from 1 to 5.

6.Write a function named compose that takes two functions, f and g, and returns a new function representing their composition (g(f(x))).

8.Create a data frame named courses with columns "Name" and "Course," .”age”,”mark”

9.Create a 3-dimensional array named my\_array with dimensions 2x3x4 filled with random numbers.

10. Create a nested list named nested\_list containing two sub-lists: list(a = 1, b = 2) and list(x = "apple", y = "banana").