Assignment 12

Due on 2020-04-22, 23:59 EST.

Assignment 12

1. Write a program that implements the following algorithm:

   a. Generate a random number between 0 and 1.
   b. If the number is less than 0.5, return 1.
   c. If the number is greater than or equal to 0.5, return 0.

2. Implement a function that calculates the factorial of a given number.

3. Write a program that finds the maximum element in an array of integers.

4. Design a data structure to efficiently store and retrieve names of employees in an organization.

5. Create a program that simulates a simple banking system, allowing users to deposit, withdraw, and check their balances.