Questions

1. Create a simple Next.js component to calculate the area of a rectangle.

   o The component should take length and width as input and display the calculated area.

2. Write a Next.js component that calculates the square of a given number.

   o Use an input field to enter a number and display the result after clicking a "Calculate" button.

3. Build a Next.js form component to calculate the Body Mass Index (BMI).

   o The component should take weight (in kg) and height (in meters) as input and display the BMI result with an interpretation (e.g., underweight, normal, overweight).

4. Create a Next.js component to calculate the area of a circle.

   o The component should take radius as input, calculate the area using πr^2, and display the result.

5. Write a Next.js component that takes two numbers as input and displays the result of their addition, subtraction, multiplication, and division.

6. Develop a Next.js component that calculates the compound interest.

   o The component should take principal, rate, time, and number of times interest is compounded per year as input and display the compound interest result.

7. Create a Next.js component to convert temperatures between Celsius and Fahrenheit.

   o The component should take a temperature and display the converted result in either Celsius or Fahrenheit, based on user selection.

8. Build a Next.js component that calculates the monthly mortgage payment.

   o The component should take principal, interest rate, and number of years as input, then display the calculated monthly payment.

9. Create a Next.js component that calculates the simple interest.

   o Use principal, rate, and time as inputs and display the calculated simple interest using the formula: Simple Interest=Principal×Rate×Time/100

10. Write a Next.js component that calculates the factorial of a number.

    o The component should take a number as input and display its factorial.