1. Kubernetes Commands and Interaction Process

Step 1: Check Pod Status

kubectl get pods

Step 2: Check Service Status

kubectl get services

Step 3: Access the Application Using kubectl port-forward
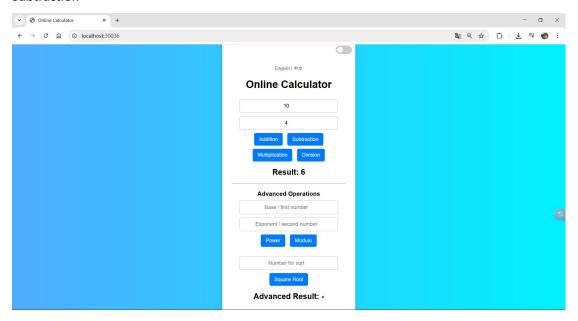
kubectl port-forward pod/calculator-deployment-75dc5b78cf-ftkhc 8080:3000

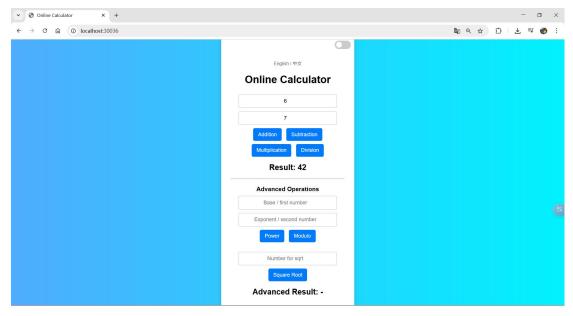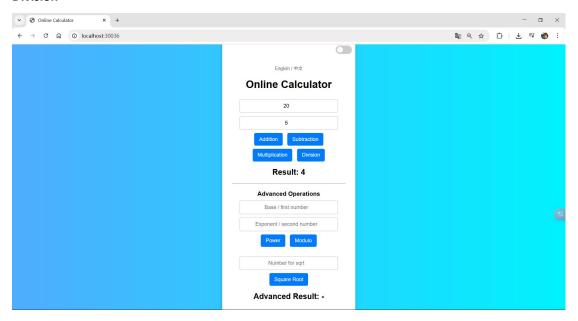# 2. Application Functional Testing
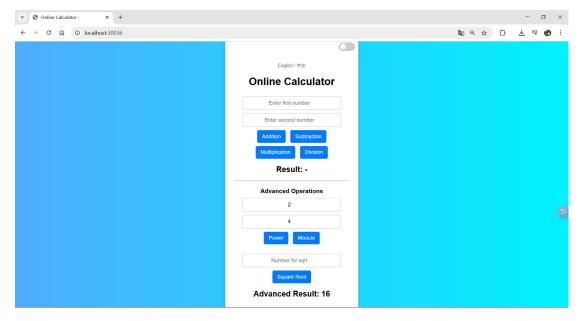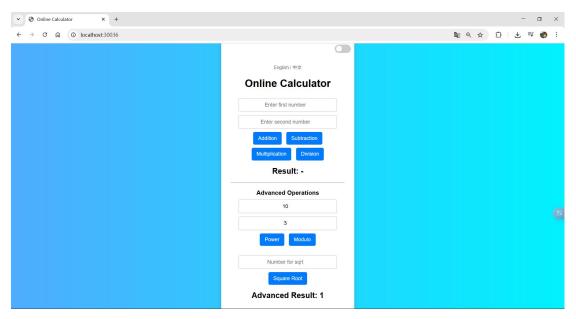
Addition

Subtraction

Multiplication

Division

Power

Modulo

Square Root

English / 中文

Online Calculator

Enter first number

Enter second number

Addition   Subtraction

Multiplication   Division

Result: -

Advanced Operations

Base / first number

Exponent / second number

Power   Modulo

49

Square Root

Advanced Result: 7