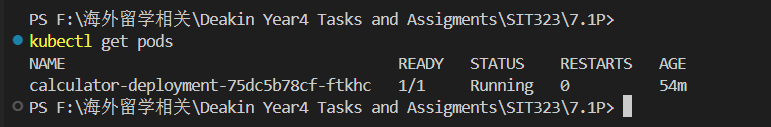
1. **Kubernetes Commands and Interaction Process**

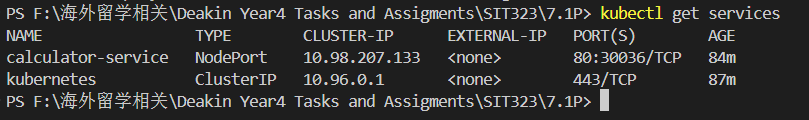
**Step 1: Check Pod Status**

kubectl get pods



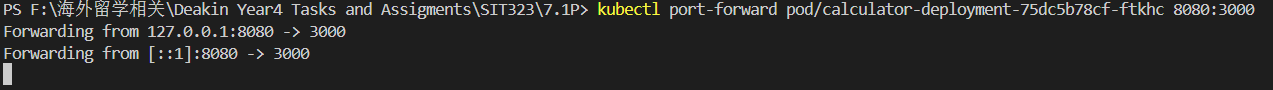
**Step 2: Check Service Status**

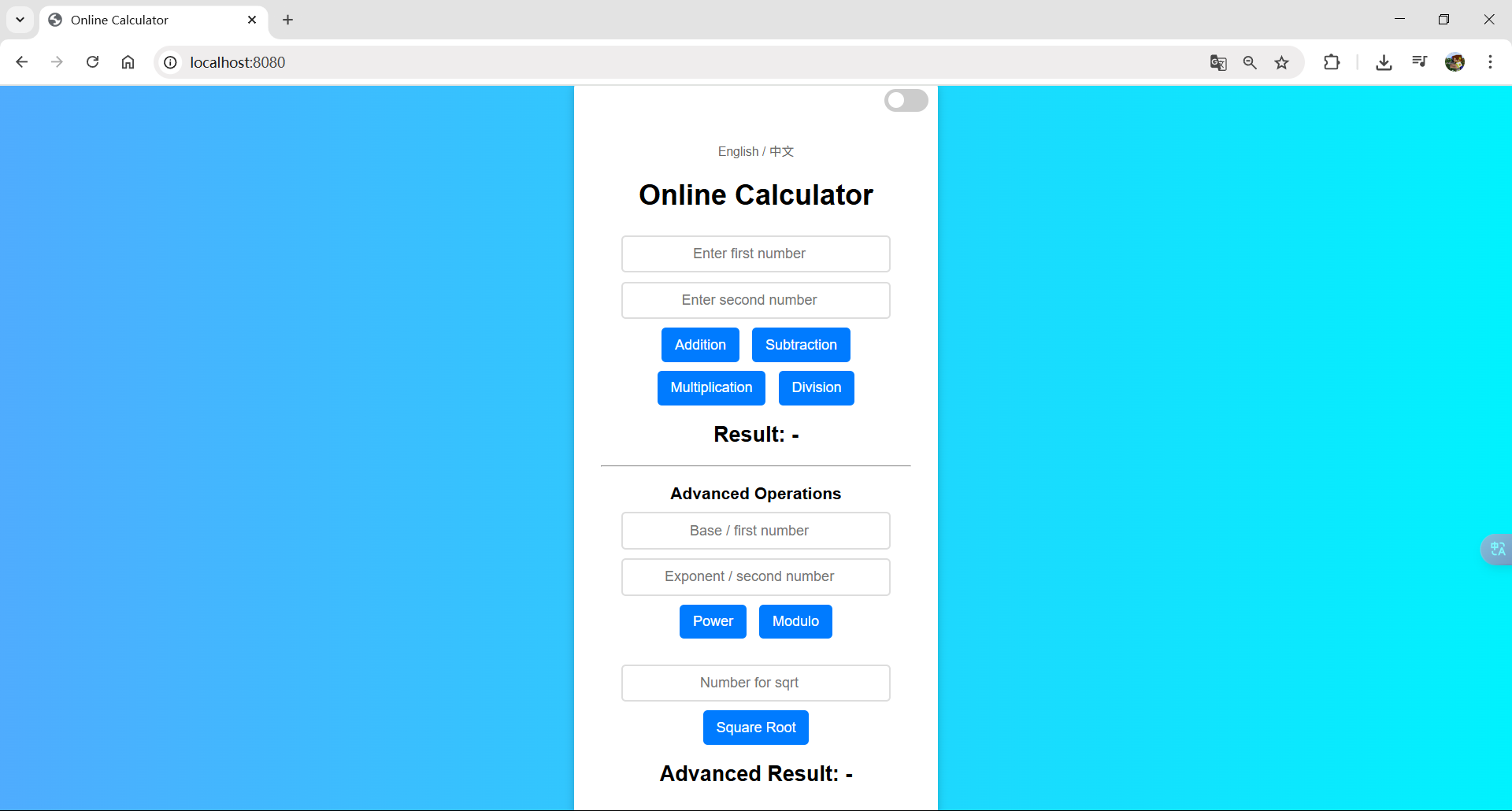
kubectl get services



**Step 3: Access the Application Using kubectl port-forward**

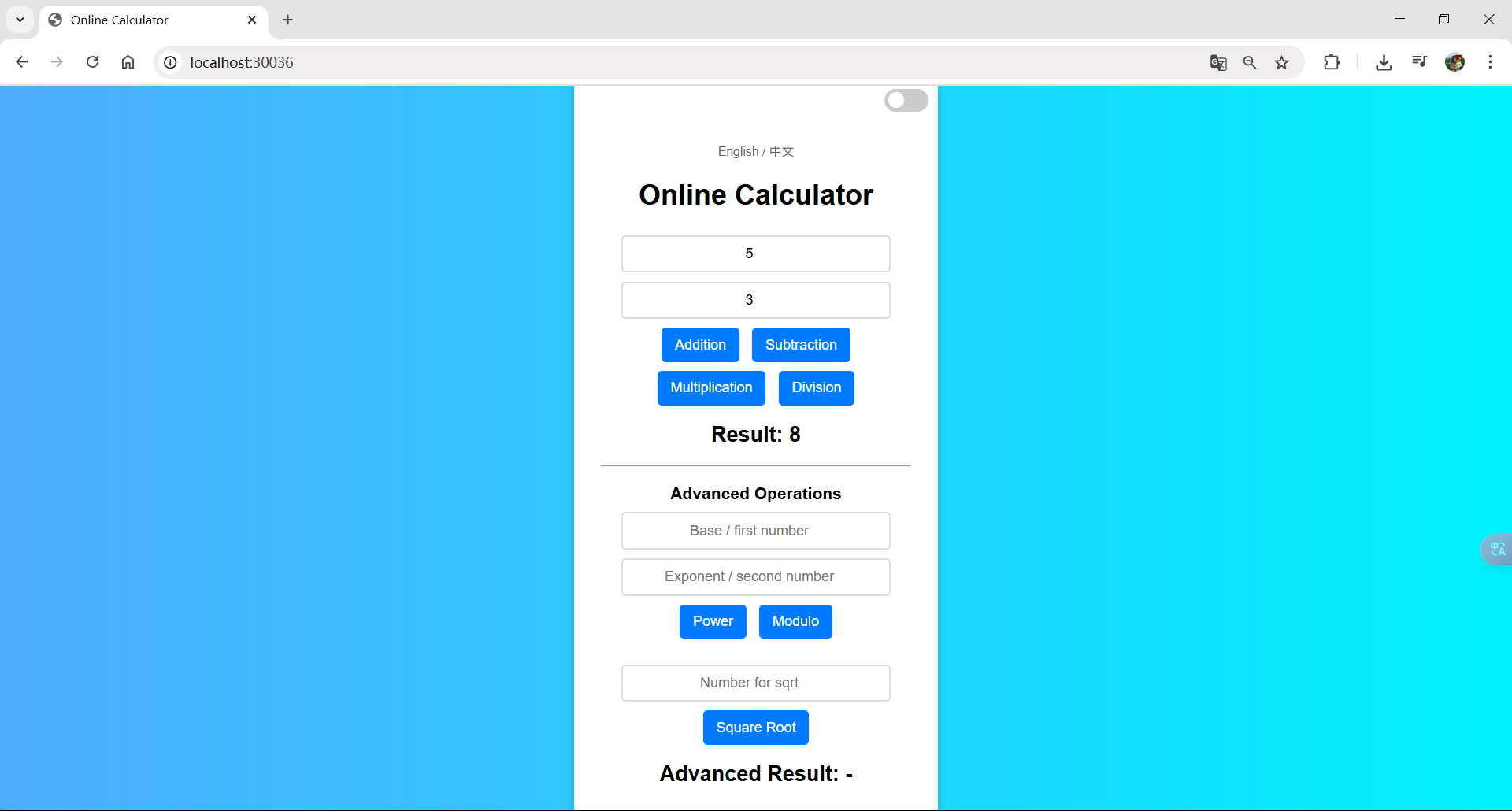
kubectl port-forward pod/calculator-deployment-75dc5b78cf-ftkhc 8080:3000



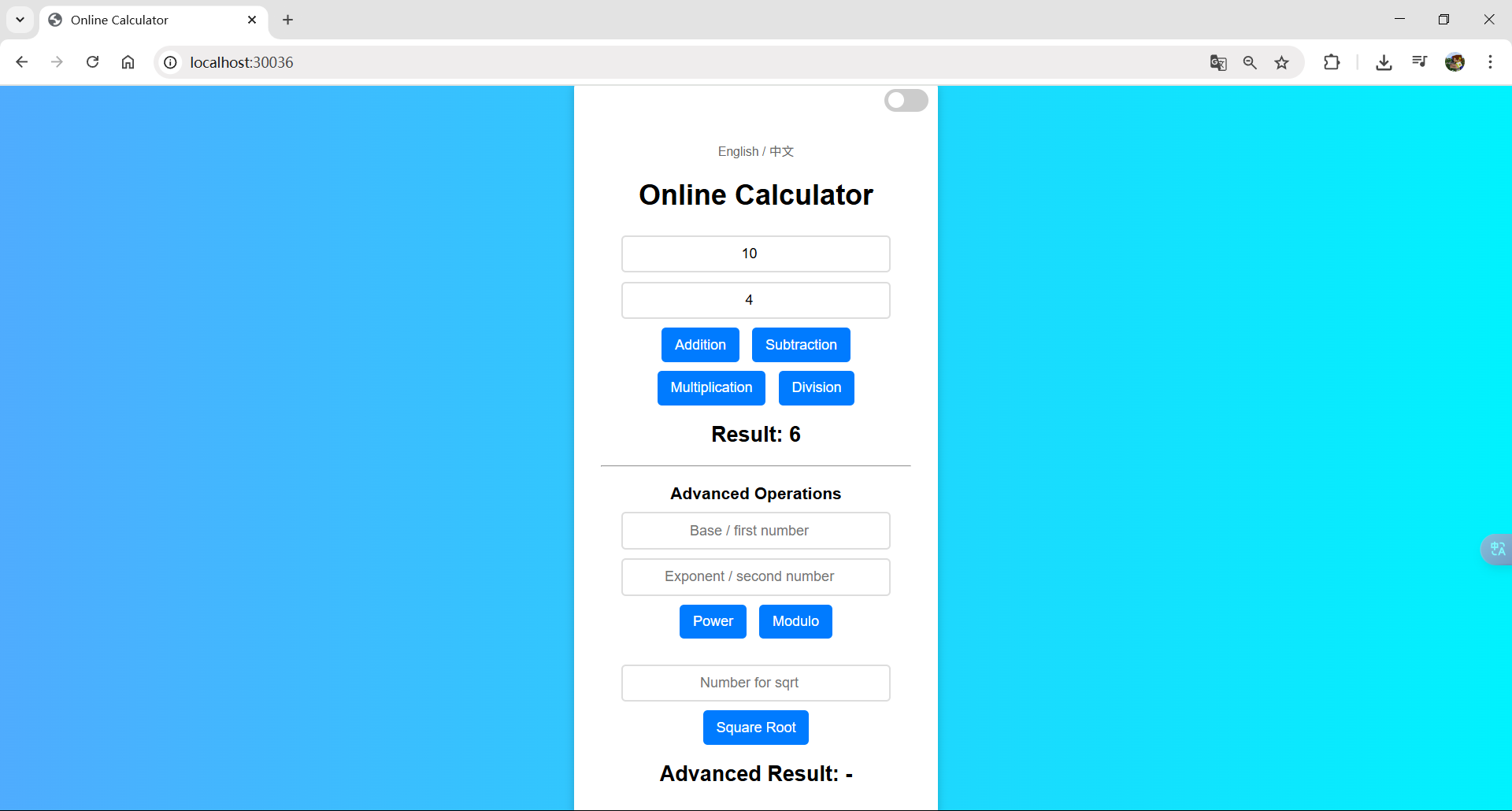


1. **Application Functional Testing**

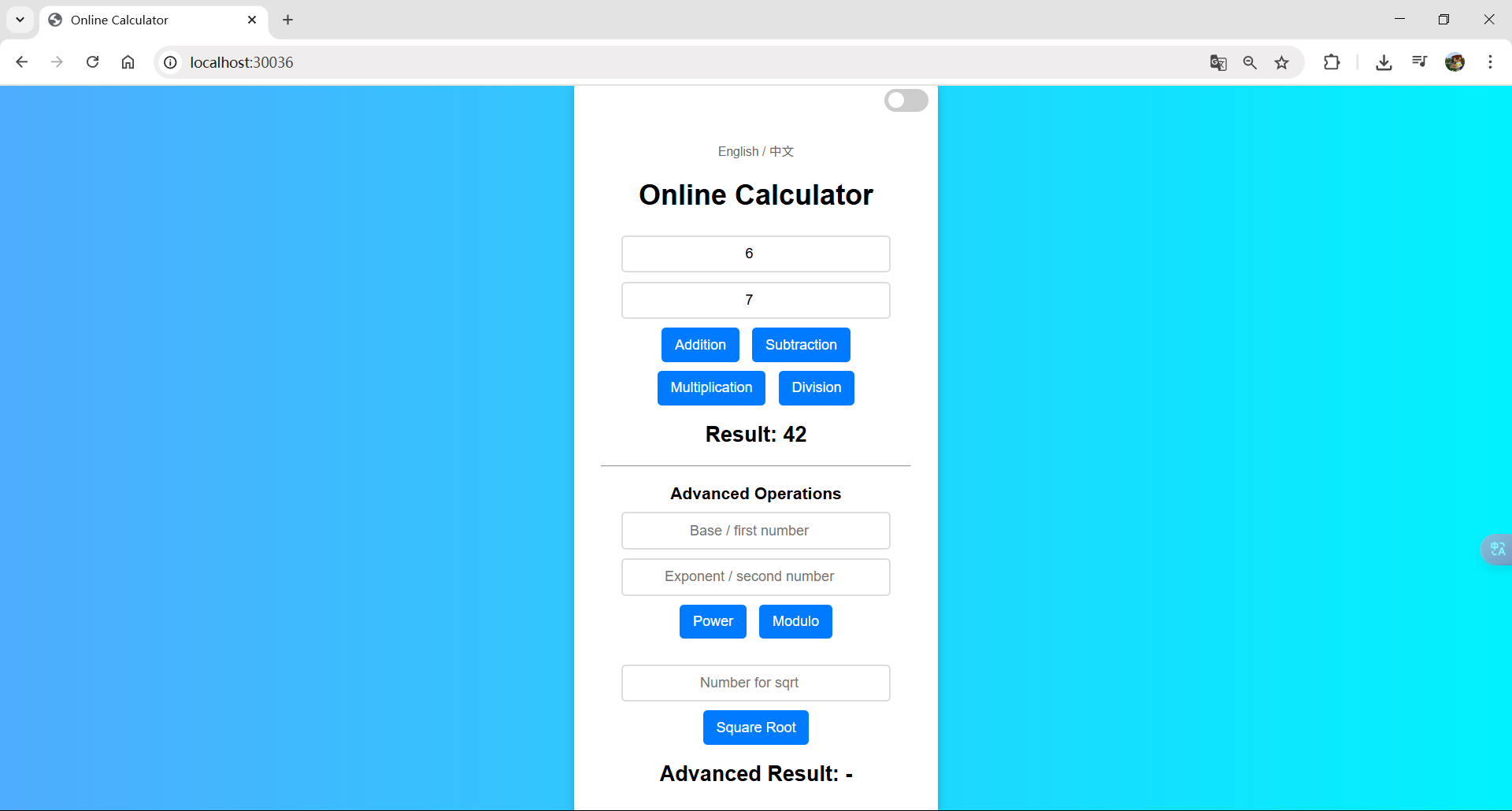
**Addition**



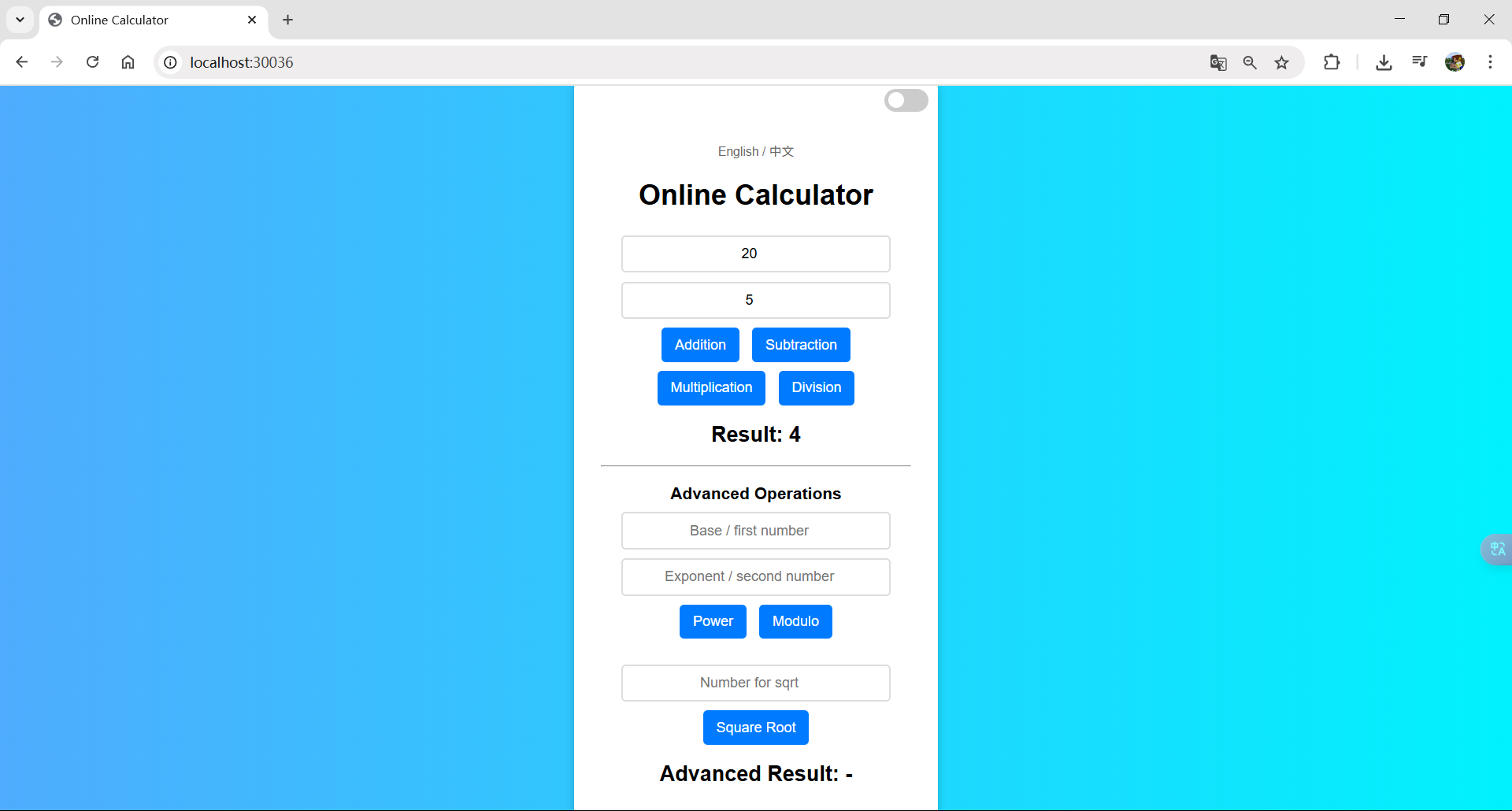
**Subtraction**



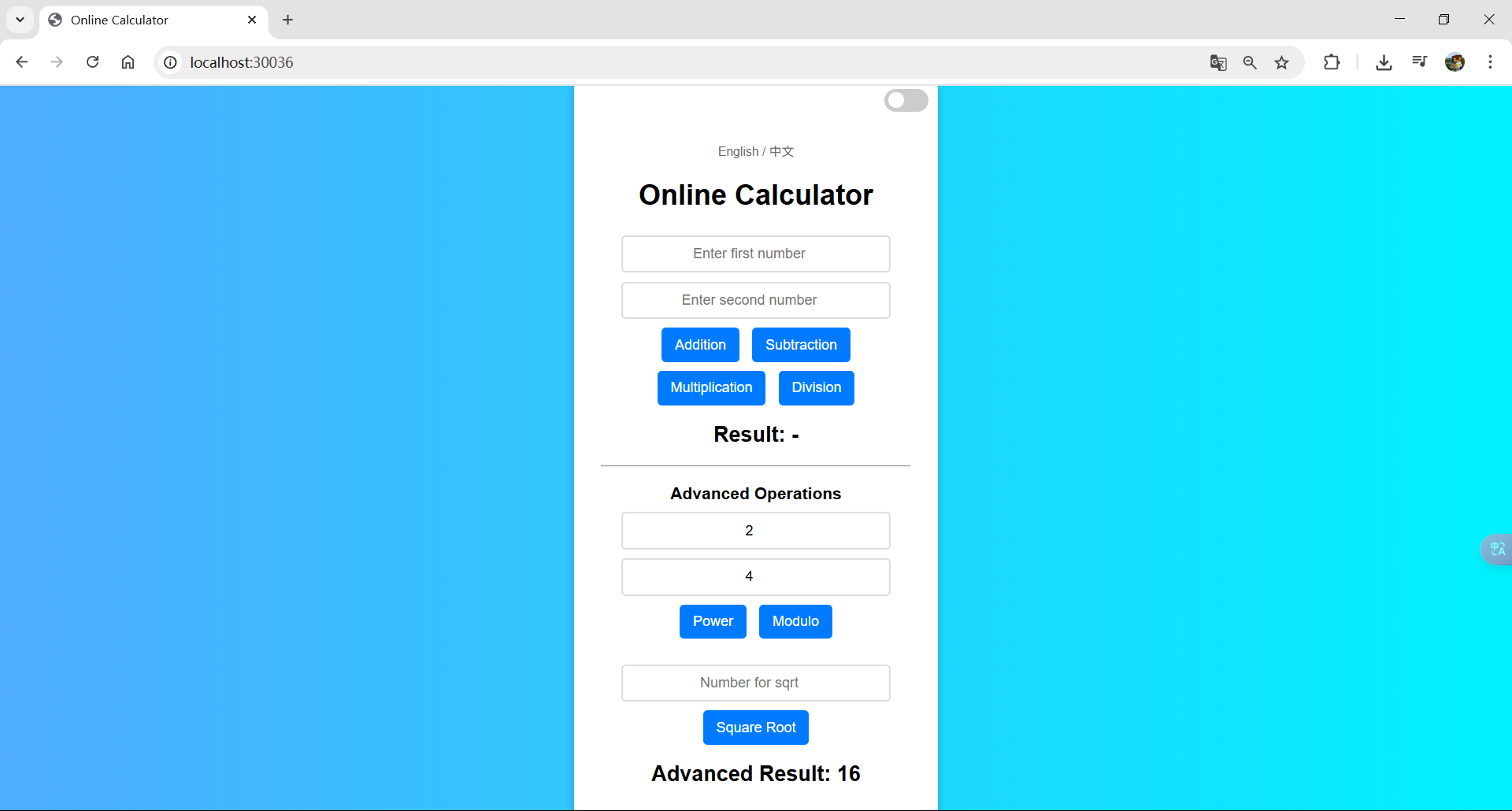
**Multiplication**



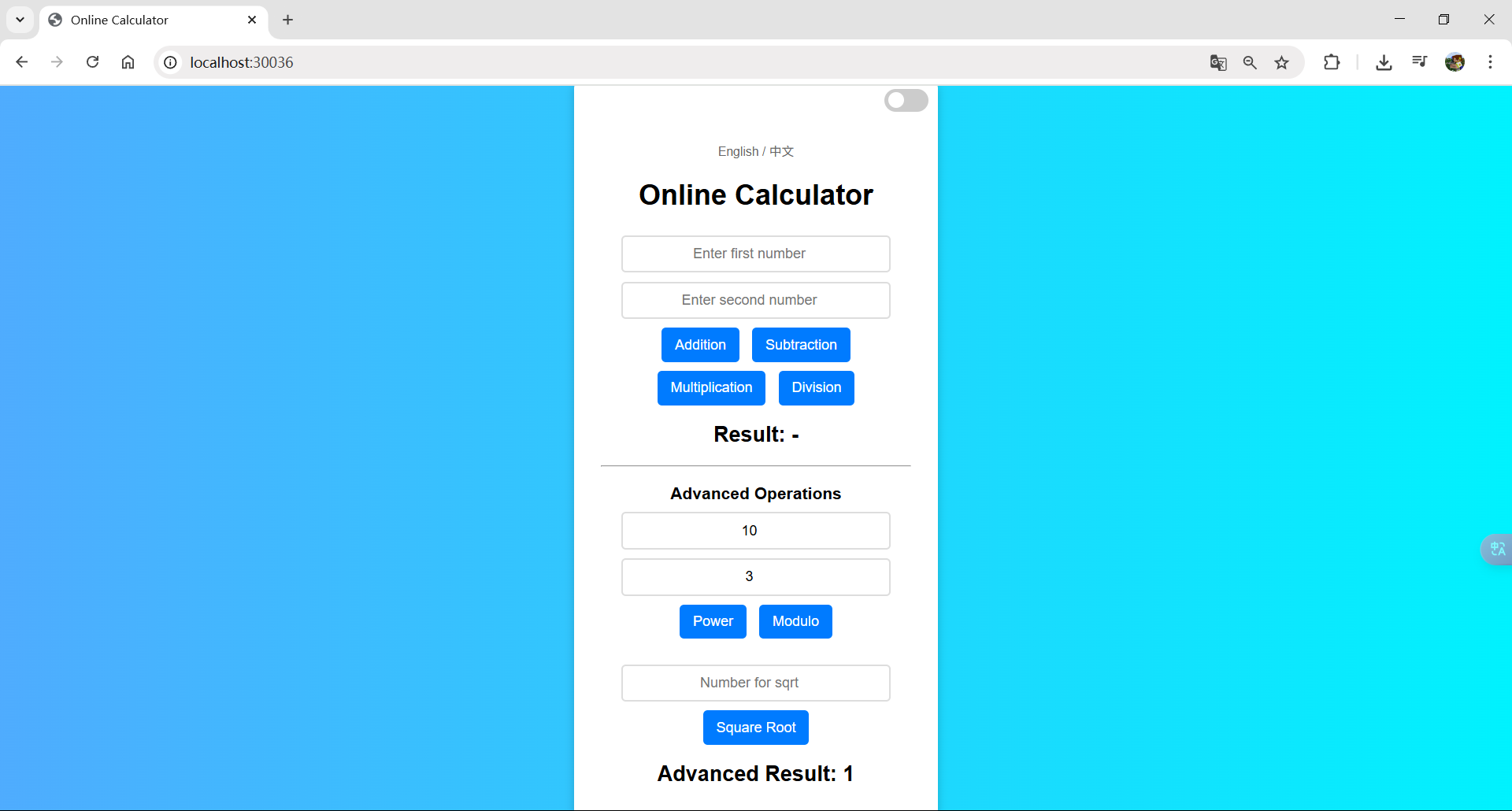
**Division**



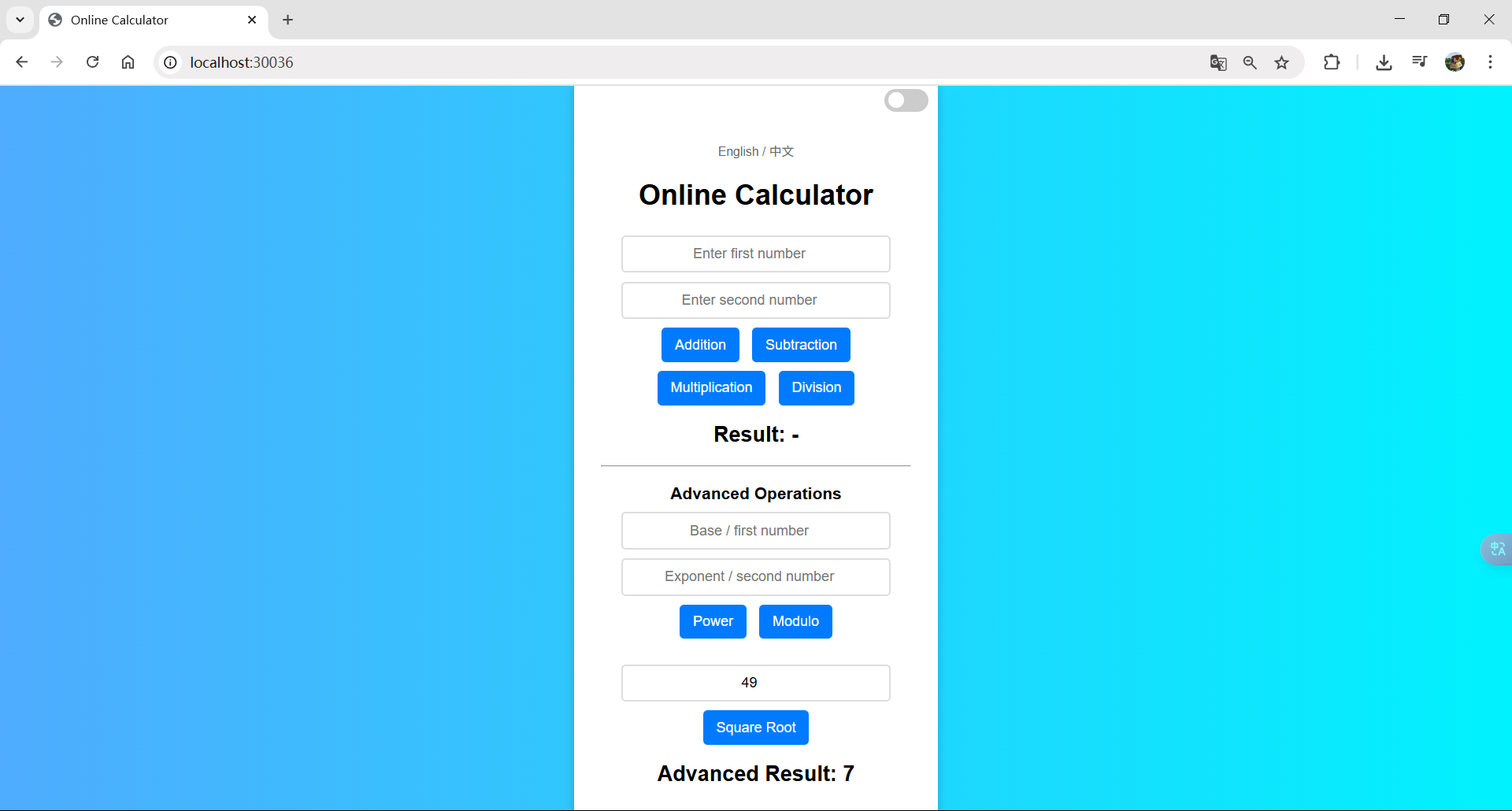
**Power**



**Modulo**



**Square Root**



**Github Link:**