Input:

```
def add(a, b):
def subtract(a, b):
def multiply(a, b):
def divide(a, b):
def power(a, b):
def get_number(prompt):
          return float(input(prompt))
def get operation():
  operations = ['+', '-', '*', '/', '^']
       if op in operations:
def calculator():
      choice = input("Choose an option (1 or 2): ")
```

```
if choice == '2':
    print("Goodbye!")
    break

elif choice == '1':
    num1 = get_number("Enter the first number: ")
    num2 = get_number("Enter the second number: ")
    operation = get_operation()

if operation == '+':
        result = add(num1, num2)

elif operation == '-':
        result = subtract(num1, num2)

elif operation == '*':
        result = multiply(num1, num2)

elif operation == '/':
        result = divide(num1, num2)

elif operation == '^':
        result = power(num1, num2)

print("Result:", result)

else:
    print("Invalid option. Please choose 1 or 2.")
```

Output:

```
PROBLEMS
           OUTPUT DEBUG CONSOLE
                                      TERMINAL
                                                 PORTS
  – Calculator Menu ––
1. Perform a calculation
2. Exit
Choose an option (1 or 2): 1
Enter the first number: 2
Enter the second number: 3
Enter operation (+, -, *, /, ^): +
Result: 5.0
--- Calculator Menu ---
1. Perform a calculation
2. Exit
Choose an option (1 or 2): 2
Goodbye!
```