

## Requirment-1

```
num1 = float(input("Enter the first number: "))
num2 = float(input("Enter the second number: "))

sum_result = num1 + num2
difference_result = num1 - num2
product_result = num1 * num2
quotient_result = num1 / num2 if num2 != 0 else "Undefined (Division by Zero)"

print(f"Sum: {sum_result}")
print(f"Difference: {difference_result}")
print(f"Product: {product_result}")
print(f"Quotient: {quotient_result}")
```

REPL | OUTPUT | DEBUG CONSOLE | TERMINAL | PORTS

```

C:\Users\fady\Desktop\New folder> & 'c:\Users\fady\AppData\Local\Microsoft\WindowsApps\python3.13.exe' 'c:\Users\fady\.vscode\extensions\ms-python.debugpy-2024.14.0-win32-x64\bundle\python\python.exe' 'c:\Users\fady\Desktop\New folder\app.py'
Enter the first number: 10
Enter the second number: 20
Sum: 30.0
Difference: -10.0
Product: 200.0
Quotient: 0.5
C:\Users\fady\Desktop\New folder> 
```

## Requirment-2

```
app.py > ...
1  num1 = float(input("Enter the first number: "))
2  num2 = float(input("Enter the second number: "))
3
4  add = num1 + num2
5  subtract = num1 - num2
6  multiply = num1 * num2
7  divide = num1 / num2 if num2 != 0 else "Undefined (Division by Zero)"
8
9  print(f"Addition: {add}")
10 print(f"Subtraction: {subtract}")
11 print(f"Multiplication: {multiply}")
12 print(f"Division: {divide}")
13
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   PORTS

```
PS C:\Users\fady\Desktop\New folder> & C:/Users/fady/AppData/Local/Microsoft/WindowsApps/python3.13.exe "c:/Users/fady/Desktop/New folder/app.py"
Enter the first number: 10
Enter the second number: 20
Addition: 30.0
Subtraction: -10.0
Multiplication: 200.0
Division: 0.5
PS C:\Users\fady\Desktop\New folder>
```

## Requirment-3

```
app.py > ...
1 while True:
2     try:
3         num1 = float(input("Enter the first number: ")) # Try to convert input to float
4         break
5     except ValueError:
6         print("Invalid input! Please enter a valid number.")
7
8 while True:
9     try:
10        num2 = float(input("Enter the second number: "))
11        break
12    except ValueError:
13        print("Invalid input! Please enter a valid number.")
14
15 add = num1 + num2
16 subtract = num1 - num2
17 multiply = num1 * num2
18 divide = num1 / num2 if num2 != 0 else "Undefined (Division by Zero)"
19
20
21 print(f"Addition: {add}")
22 print(f"Subtraction: {subtract}")
23 print(f"Multiplication: {multiply}")
24 print(f"Division: {divide}")
25
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

Enter the second number: 20  
Addition: 30.0  
Subtraction: -10.0  
Multiplication: 200.0  
Division: 0.5  
PS C:\Users\fady\Desktop\New folder> & C:/Users/fady/AppData/Local/Microsoft/WindowsApps/python3.13.exe "c:/Users/fady/Desktop/New folder/app.py"  
Enter the first number: f  
Invalid input! Please enter a valid number.  
Enter the first number: 10  
Enter the second number: 20  
Addition: 30.0  
Subtraction: -10.0  
Multiplication: 200.0  
Division: 0.5  
PS C:\Users\fady\Desktop\New folder> █