```python
def calculator():
    num1 = float(input("Enter the first number: "))
    num2 = float(input("Enter the second number: "))
    operator = input("Enter the operator (+, -, *, /): ")
    if operator == '+':
        result = num1 + num2
    elif operator == '-':
        result = num1 - num2
    elif operator == '*':
        result = num1 * num2
    elif operator == '/':
        if num2 == 0:
            print("Error: Division by zero!")
            return
        result = num1 / num2
    else:
        print("Error: Invalid operator!")
        return
    print(f"Result: {num1} {operator} {num2} = {result}")
calculator()
```

output:

Enter the first number: 2

Enter the second number: 4

Enter the operator (+, -, *, /): +

Result: 2.0 + 4.0 = 6.0