```
def add(x, y):
    return x + y

def subtract(x, y):
    return x - y

def multiply(x, y):
    return x * y

def divide(x, y):
    if y == 0:
        return "Error: Division by zero"
    return x / y

def main():
    print("Simple Calculator")

    while True:
        try:
            num1 = float(input("Enter first number: "))
            num2 = float(input("Enter second number: "))
        except ValueError:
            print("Invalid input. Please enter numeric values.")
            continue

        print("\nChoose operation:")
```

```
    print("1. Add")
    print("2. Subtract")
    print("3. Multiply")
    print("4. Divide")
    print("5. Exit")

    choice = input("Enter choice (1/2/3/4/5): ")

    if choice == '1':
        print(f"Result: {num1} + {num2} = {add(num1, num2)}")
    elif choice == '2':
        print(f"Result: {num1} - {num2} = {subtract(num1, num2)}")
    elif choice == '3':
        print(f"Result: {num1} * {num2} = {multiply(num1, num2)}")
    elif choice == '4':
        result = divide(num1, num2)
        print(f"Result: {num1} / {num2} = {result}")
    elif choice == '5':
        print("Exiting the calculator. Goodbye!")
        break
    else:
        print("Invalid choice. Please choose a valid operation.")

if __name__ == "__main__":
    main()
```