

```
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
```

```
print("Select operation:")  
print("1. Add")  
print("2. Subtract")  
print("3. Multiply")  
print("4. Divide")
```

```
while True:  
    choice = input("Enter choice (1/2/3/4): ")  
    if choice in ['1', '2', '3', '4']:  
        num1 = float(input("Enter first number: "))  
        num2 = float(input("Enter second number: "))  
        if choice == '1':  
            print(f"{num1} + {num2} = {add(num1, num2)}")  
        elif choice == '2':  
            print(f"{num1} - {num2} = {subtract(num1, num2)}")  
        elif choice == '3':  
            print(f"{num1} * {num2} = {multiply(num1, num2)}")  
        elif choice == '4':  
            print(f"{num1} / {num2} = {divide(num1, num2)}")  
    else:  
        print("Invalid input")
```