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 x / y  
 else:  
 return "Cannot divide by zero"  
  
while True:  
 print("Options:")  
 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 == '5':  
 print("Calculator closed.")  
 break  
  
 if choice not in ('1', '2', '3', '4'):  
 print("Invalid input. Please enter a valid number (1/2/3/4/5).")  
 continue  
  
 num1 = float(input("Enter first number: "))  
 num2 = float(input("Enter second number: "))  
  
 if choice == '1':  
 print(num1, "+", num2, "=", add(num1, num2))  
  
 elif choice == '2':  
 print(num1, "-", num2, "=", subtract(num1, num2))  
  
 elif choice == '3':  
 print(num1, "\*", num2, "=", multiply(num1, num2))  
  
 elif choice == '4':  
 print(num1, "/", num2, "=", divide(num1, num2))