**Activity 10**

Write a program to create a Simple Calculator using a switch case and function for every operation.

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 (1-5): ")

    if choice in ['1', '2', '3', '4']:

        num1 = float(input("Enter first number: "))

        num2 = float(input("Enter second number: "))

        if choice == '1':

            print("Result: ", add(num1, num2))

        elif choice == '2':

            print("Result: ", subtract(num1, num2))

        elif choice == '3':

            print("Result: ", multiply(num1, num2))

        elif choice == '4':

            print("Result: ", divide(num1, num2))

    elif choice == '5':

        print("Exiting the calculator. Goodbye!")

        break

    else:

        print("Invalid input. Please enter a number between 1 and 5.")