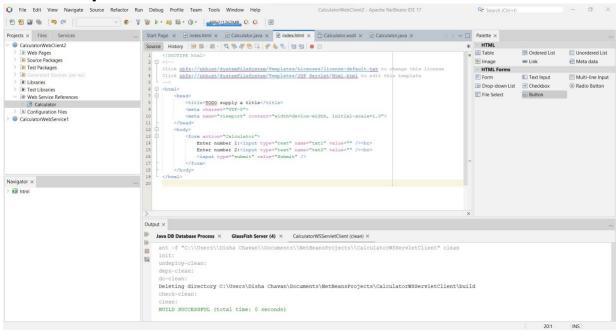
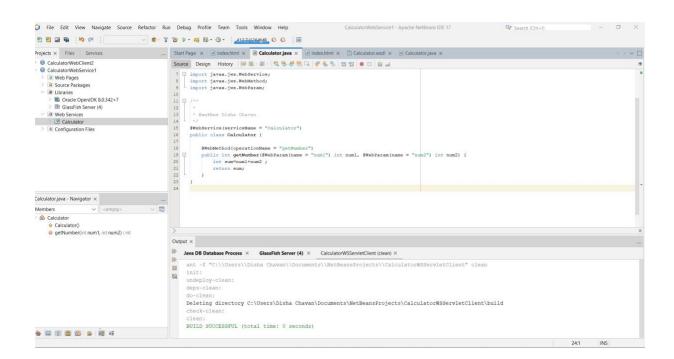
Code Implementation:





Output:

