

RMI -CODE:

1.calculatorclient.java

```
import java.rmi.registry.LocateRegistry;
import java.rmi.registry.Registry;

public class CalcClient {
    public static void main(String[] args) {
        try {
            String serverIP = "YOUR_EC2_PUBLIC_IP";

            Registry registry = LocateRegistry.getRegistry(serverIP,
1099);
            Calculator calc = (Calculator)
registry.lookup("CalcService");

            System.out.println("Add: " + calc.add(10, 5));
            System.out.println("Sub: " + calc.sub(10, 5));
            System.out.println("Mul: " + calc.mul(10, 5));
            System.out.println("Div: " + calc.div(10, 5));
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

2.calculatorserver.java

```
import java.rmi.registry.LocateRegistry;
import java.rmi.registry.Registry;

public class CalcServer {
```

```
public static void main(String[] args) {
    try {
        System.setProperty("java.rmi.server.hostname",
"YOUR_EC2_PUBLIC_IP");

        Calculator calc = new CalculatorImpl();
        Registry registry = LocateRegistry.createRegistry(1099);
        registry.rebind("CalcService", calc);

        System.out.println("RMI Calculator Server running on port
1099");
    } catch (Exception e) {
        e.printStackTrace();
    }
}
```

3.calculator.java:

```
import java.rmi.Remote;
import java.rmi.RemoteException;

public interface Calculator extends Remote {
    int add(int a, int b) throws RemoteException;
    int sub(int a, int b) throws RemoteException;
    int mul(int a, int b) throws RemoteException;
    int div(int a, int b) throws RemoteException;
}
```

4.calculatorimpl.java:

```
import java.rmi.server.UnicastRemoteObject;
import java.rmi.RemoteException;

public class CalculatorImpl extends UnicastRemoteObject implements
Calculator {
```

```
protected CalculatorImpl() throws RemoteException {
    super();
}

public int add(int a, int b) {
    return a + b;
}

public int sub(int a, int b) {
    return a - b;
}

public int mul(int a, int b) {
    return a * b;
}

public int div(int a, int b) {
    if (b == 0) {
        throw new ArithmeticException("Division by zero");
    }
    return a / b;
}
```