KISHINCHAND CHELLARAM COLLEGE, MUMBAI - 20

T.Y. B.Sc. I.T. Semester VI

Code:

```
Calculator.java
import java.rmi.Remote;
import java.rmi.RemoteException;
public interface Calculator extends Remote {
  int add(int a, int b) throws RemoteException;
  int subtract(int a, int b) throws RemoteException;
}
CalculatorImpl.java
import java.rmi.server.UnicastRemoteObject;
import java.rmi.RemoteException;
public class CalculatorImpl extends UnicastRemoteObject implements Calculator {
  protected CalculatorImpl() throws RemoteException {
    super();
  }
  @Override
  public int add(int a, int b) throws RemoteException {
    return a + b;
  }
  @Override
  public int subtract(int a, int b) throws RemoteException {
    return a - b;
  }
}
Server.java
import java.rmi.registry.LocateRegistry;
import java.rmi.registry.Registry;
public class Server {
  public static void main(String[] args) {
    try {
      CalculatorImpl calculator = new CalculatorImpl();
      Registry registry = LocateRegistry.createRegistry(1099);
      registry.rebind("CalculatorService", calculator);
      System.out.println("Calculator Server is ready...");
    }
     catch (Exception e) {
      System.err.println("Server exception: " + e.toString());
      e.printStackTrace();
    }
  }
}
```

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```
Client.java
```

```
import java.rmi.registry.LocateRegistry;
import java.rmi.registry.Registry;
import java.util.Scanner;
public class Client {
  public static void main(String[] args) {
    try {
       Registry registry = LocateRegistry.getRegistry("localhost", 1099);
       Calculator calculator = (Calculator) registry.lookup("CalculatorService");
       Scanner sc = new Scanner(System.in);
       System.out.print("Enter first number: ");
       int a = sc.nextInt();
       System.out.print("Enter second number: ");
       int b = sc.nextInt();
       System.out.println("Addition: " + calculator.add(a, b));
       System.out.println("Subtraction: " + calculator.subtract(a, b));
      sc.close();
    }
     catch (Exception e) {
      System.err.println("Client exception: " + e.toString());
      e.printStackTrace();
    }
  }
}
```

Output:



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