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DISTRIBUTED COMPUTING (DC) EXPERIMENT 01

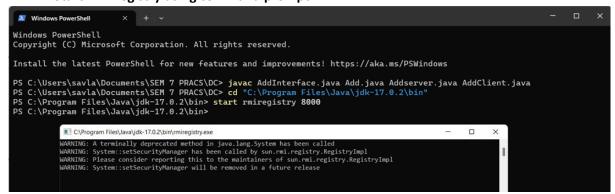
AIM: To implement Client-Server using RMI.

```
CODE:
AddIterface.Java
import java.rmi.*;
public interface AddInterface extends Remote {
  // Declaring the sum method to be used remotely
  public int sum(int n1, int n2) throws RemoteException;
}
Add.Java
import java.rmi.*;
import java.rmi.server.*;
public class Add extends UnicastRemoteObject implements AddInterface {
  // Default constructor for Add
  public Add() throws RemoteException {
    super();
  // Implementation of the sum method
  @Override
  public int sum(int n1, int n2) throws RemoteException {
    return n1 + n2;
 }
}
AddServer.Java
import java.rmi.Naming;
public class AddServer {
  public static void main(String[] args) {
    try {
      // Binding the remote object to the name "Add"
      Naming.rebind("Add", new Add());
      System.out.println("Server is connected and waiting for the client...");
    } catch (Exception e) {
      System.out.println("Server could not connect: " + e);
    }
 }
}
```

AddClient.Java

OUTPUT:

- Compile AddInterface.java, Add.java, AddServer.java and AddClient.java
- Start RMI registry using command prompt



• Execute AddCServer.java

```
Windows PowerShell
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PS C:\Program Files\Java\jdk-17.0.2\bin> java AddServer
Server is connected and waiting for the client
```

Execute AddClient.java

```
Windows PowerShell
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PS C:\Program Files\Java\jdk-17.0.2\bin> java AddClient

The sum of two numbers is 11

PS C:\Program Files\Java\jdk-17.0.2\bin> |
```