## DS Lab Assignment 1

## Code

```
AddServer.java -
import java.rmi.*;
public class AddServer {
public static void main(String args[]) {
try {
//create remote object
AddServerImpl addServerImpl = new AddServerImpl();
//bind the remote object
Naming.rebind("AddServer", addServerImpl);
}
catch (Exception e) {
System.out.println("Exception: "+ e);
}}}
AddClient.java -
import java.rmi.*;
public class AddClient {
public static void main(String args[]) {
try {
// Get reference to the remote object
String addServerURL = "rmi://" + args[0] + "/AddServer";
AddServerIntf addServerIntf =
(AddServerIntf) Naming.lookup(addServerURL);
System.out.println("The first number is: " + args[1]);
double d1 = Double.parseDouble(args[1]);
System.out.println("The second number is: " + args[2]);
double d2 = Double.parseDouble(args[2]);
// Invoke remote method to add numbers
System.out.println("The sum is: " + addServerIntf.add(d1, d2));
}
```

```
catch (Exception e) { System.out.println("Exception: "+ e);
}}}
AddServerIntf.java -
import java.rmi.*;
public interface AddServerIntf extends Remote {
//method declaration
double add(double d1, double d2) throws RemoteException;
}
AddServerImpl.java -
import java.rmi.*;
import java.rmi.server.*;
//class that implements the remote interface
public class AddServerImpl extends UnicastRemoteObject
implements AddServerIntf {
//constructor
public AddServerImpl() throws RemoteException {
}
//implement method declared in the interface
public double add(double d1, double d2) throws RemoteException {
return d1 + d2; }
}
```

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## Output

```
C:\Users\prasa>cd C:\Users\prasa\Downloads\BE-IT-DS-main\BE-IT-DS-main\Assign1
C:\Users\prasa\Downloads\BE-IT-DS-main\BE-IT-DS-main\Assign1>start rmiregistry
C:\Users\prasa\Downloads\BE-IT-DS-main\BE-IT-DS-main\Assign1>java AddServer
```

```
WARNING: A terminally deprecated method in java.lang.System has been called
WARNING: System::setSecurityManager has been called by sun.rmi.registry.RegistryImpl
WARNING: Please consider reporting this to the maintainers of sun.rmi.registry.RegistryImpl
WARNING: System::setSecurityManager will be removed in a future release
```

```
C:\Users\prasa>cd C:\Users\prasa\Downloads\BE-IT-DS-main\BE-IT-DS-main\Assign1
C:\Users\prasa\Downloads\BE-IT-DS-main\BE-IT-DS-main\Assign1>java AddClient localhost 3.7 4.1
The first number is: 3.7
The second number is: 4.1
The sum is: 7.8
C:\Users\prasa\Downloads\BE-IT-DS-main\BE-IT-DS-main\Assign1>
```