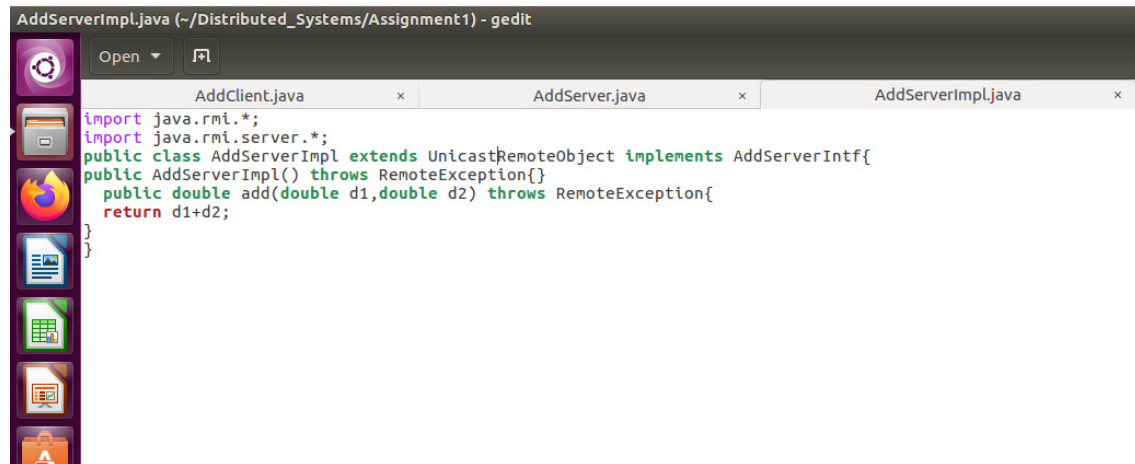


Name- Vaibhav Bichave

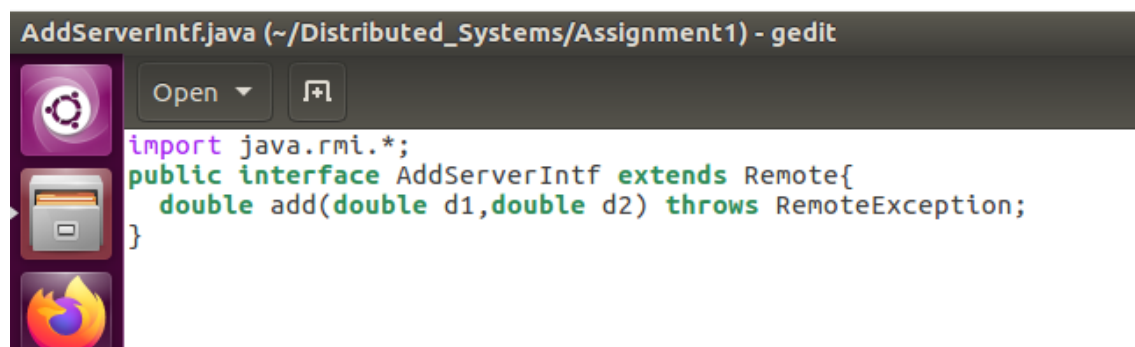
Roll no.-43209

CODE IMPLEMENTATION :



The screenshot shows a gedit window titled "AddServerImpl.java (~/.Distributed_Systems/Assignment1) - gedit". The window has three tabs: "AddClient.java", "AddServer.java", and "AddServerImpl.java". The code in the active tab is as follows:

```
import java.rmi.*;
import java.rmi.server.*;
public class AddServerImpl extends UnicastRemoteObject implements AddServerIntf{
    public AddServerImpl() throws RemoteException{}
    public double add(double d1,double d2) throws RemoteException{
        return d1+d2;
    }
}
```



The screenshot shows a gedit window titled "AddServerIntf.java (~/.Distributed_Systems/Assignment1) - gedit". The window has one tab: "AddServerIntf.java". The code in the active tab is as follows:

```
import java.rmi.*;
public interface AddServerIntf extends Remote{
    double add(double d1,double d2) throws RemoteException;
}
```

AddServer.java (~/.Distributed_Systems/Assignment1) - gedit

Open [icon]

AddClient.java x AddServer.java x

```
import java.net.*;
import java.rmi.*;
public class AddServer{
    public static void main(String args[]){
        try{
            AddServerImpl addServerImpl=new AddServerImpl();
            Naming.rebind("AddServer", addServerImpl);
        }
        catch(Exception e){
            System.out.println("Exception: "+e);
        }
    }
}
```

AddClient.java (~/.Distributed_Systems/Assignment1) - gedit

Open [icon]

AddClient.java x AddServer.java x AddServerImpl.java x

```
import java.rmi.*;
public class AddClient{
    public static void main(String args[]){
        try{
            String addServerURL="rmi://"+args[0]+"/AddServer";
            AddServerIntf addServerIntf=(AddServerIntf)Naming.lookup(addServerURL);
            System.out.println("The first number is: "+args[1]);
            double d1=Double.valueOf(args[1]).doubleValue();
            System.out.println("The second number is: "+args[2]);
            double d2=Double.valueOf(args[2]).doubleValue();
            System.out.println("The sum is: "+addServerIntf.add(d1,d2));
        }
        catch(Exception e){
            System.out.println("Exception: "+e);
        }
    }
}
```

```
Activities Terminal May 9 22:14
vaibhav@vaibhav-VirtualBox: ~/LPS/Assign1

vaibhav@vaibhav-VirtualBox:~$ cd LPS/Assign1/
vaibhav@vaibhav-VirtualBox:~/LPS/Assign1$ ls
AddClient.class  AddServer.class  AddServerImpl.java  AddServerIntf.class  AddServer.java
AddClient.java  AddServerImpl.class  AddServerImpl_Stub.class  AddServerIntf.java  'New Text Document.txt'
vaibhav@vaibhav-VirtualBox:~/LPS/Assign1$ javac *.java
vaibhav@vaibhav-VirtualBox:~/LPS/Assign1$ rmic AddServerImpl
Warning: generation and use of skeletons and static stubs for JRMP
is deprecated. Skeletons are unnecessary, and static stubs have
been superseded by dynamically generated stubs. Users are
encouraged to migrate away from using rmic to generate skeletons and static
stubs. See the documentation for java.rmi.server.UnicastRemoteObject.
vaibhav@vaibhav-VirtualBox:~/LPS/Assign1$ rmiregistry

vaibhav@vaibhav-VirtualBox:~/LPS/Assign1$

vaibhav@vaibhav-VirtualBox:~/LPS/Assign1$ cd LPS/Assign1/
vaibhav@vaibhav-VirtualBox:~/LPS/Assign1$ javac *.java
vaibhav@vaibhav-VirtualBox:~/LPS/Assign1$ java AddServer
The first number is: 5
The second number is: 8
The sum is: 13.0
vaibhav@vaibhav-VirtualBox:~/LPS/Assign1$
```