CODE :

1)Client.java :

```
import java.rmi.*;
import java.util.Scanner;

public class Client{
	public static void main(String[] args){
		Scanner sc = new Scanner(System.in);
		try{
			String serverURL = "rmi://localhost/Server";
			ServerIntf serverIntf = (ServerIntf) Naming.lookup(serverURL);

			System.out.print("Enter First Number: ");
			double num1 = sc.nextDouble();

			System.out.print("Enter Second Number: ");
			double num2 = sc.nextDouble();

			System.out.println("First Number Is: " + num1);
			System.out.println("Second Number Is: " + num2);

			System.out.println("---------- Results ----------");
			System.out.println("Addition Is: " +serverIntf.Addition(num1, num2));
			System.out.println("Subtraction Is: " +serverIntf.Subtraction(num1, num2));
			System.out.println("Multiplication Is: " +serverIntf.Multiplication(num1,
num2));
			System.out.println("Division Is: " +serverIntf.Division(num1, num2));
	}catch(Exception e){
			System.out.println("Exception Occurred At Client!" + e.getMessage());
			}
	}
}
```

2)Server.java :

```
import java.rmi.*;

public class Server{
	public static void main(String[] args){
		try{
			ServerImpl serverImpl = new ServerImpl();
			Naming.rebind("Server", serverImpl);
			System.out.println("Server Started....");
		}catch(Exception e){
			System.out.println("Exception Occurred At Server!" + e.getMessage());
		}
	}
}
```

3)ServerImpl.java :

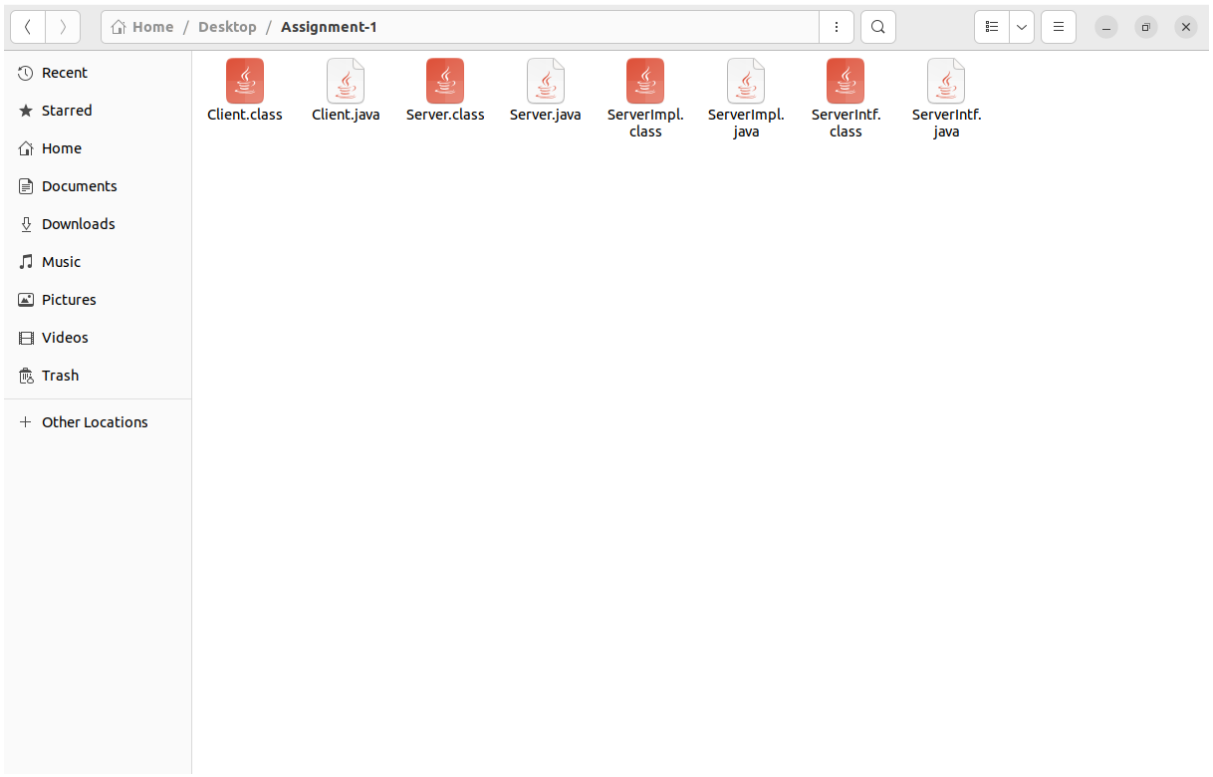
```
import java.rmi.*;
import java.rmi.server.*;

public class ServerImpl extends UnicastRemoteObject
	implements ServerIntf {
		public ServerImpl() throws RemoteException{
		}
		public double Addition(double num1, double num2) throws RemoteException{
			return num1 + num2;
		}

		public double Subtraction(double num1, double num2) throws RemoteException{
			return num1 - num2;
		}
		public double Multiplication(double num1, double num2) throws RemoteException{
```

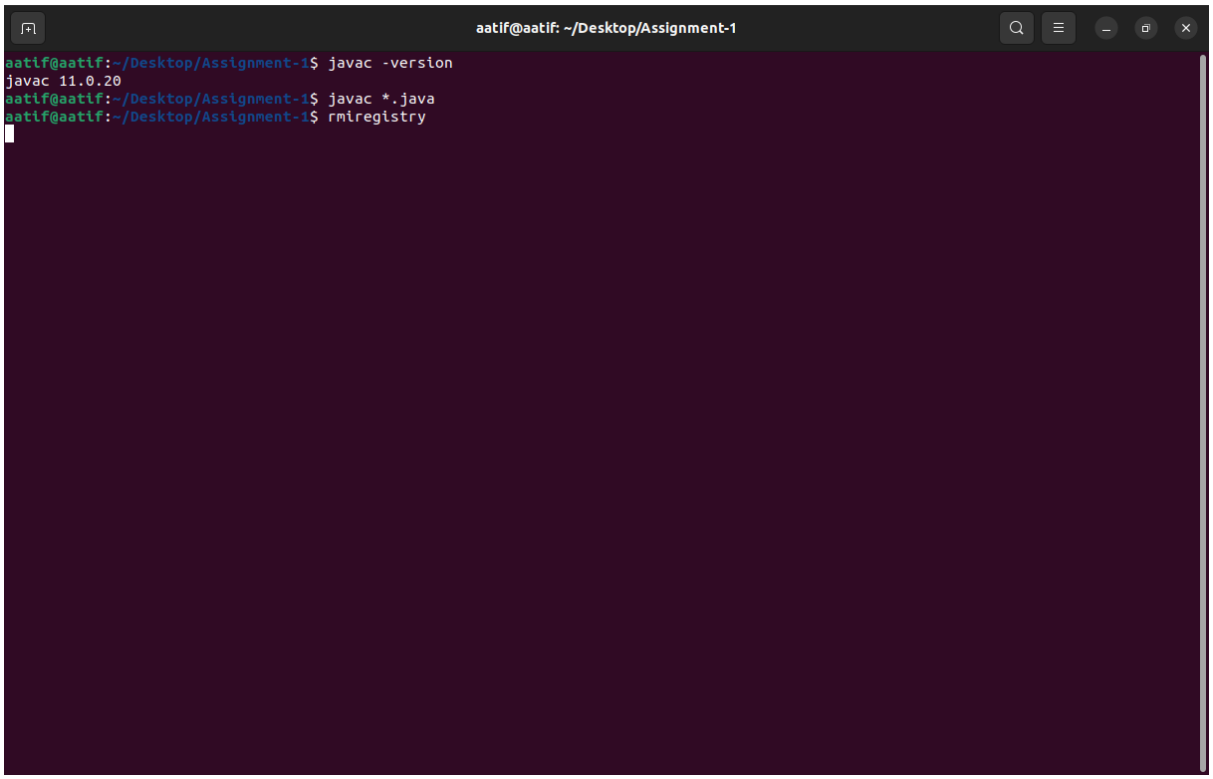
```
                return num1 * num2;
        }
        public double Division(double num1, double num2) throws RemoteException{
                if(num2 != 0){
                        return num1/num2;
                }
                else{
                        System.out.println("Cannot Divide A Number By Zero!");
                }
                return num1/num2;
        }
    }
}
```

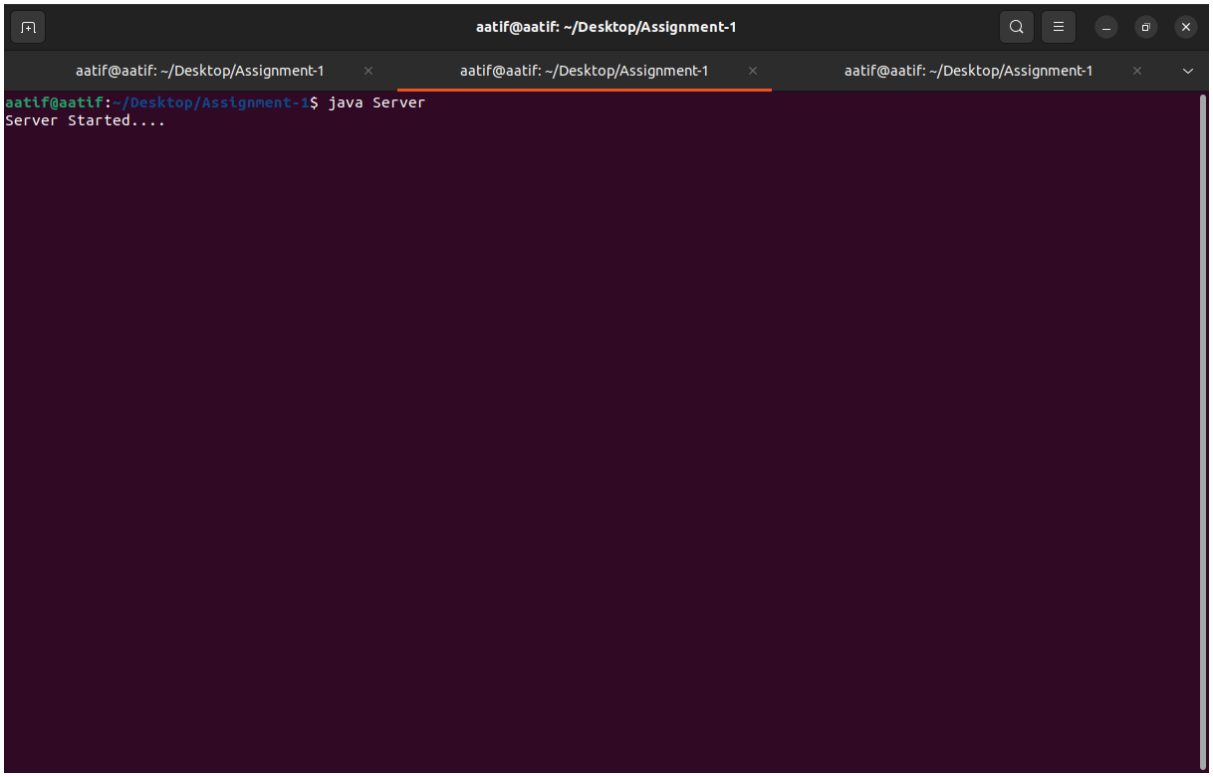
4)ServerIntf.java :

```
import java.rmi.*;


interface ServerIntf extends Remote{
    // Syntax for method declaration: access_specifier return_type method_name(arguments...){ return value}


    public double Addition(double num1, double num2) throws RemoteException;
    public double Subtraction(double num1, double num2) throws RemoteException;
    public double Multiplication(double num1, double num2) throws RemoteException;
    public double Division(double num1, double num2) throws RemoteException;
}
```

OUTPUT :


Home / Desktop / Assignment-1
Recent
Starred
Home
Documents
Downloads
Music
Pictures
Videos
Trash
Other Locations
Client.class
Client.java
Server.class
Server.java
ServerImpl.class
ServerImpl.java
ServerIntf.class
ServerIntf.java


aatif@aatif: ~/Desktop/Assignment-1
aatif@aatif:~/Desktop/Assignment-1$ javac -version
javac 11.0.20
aatif@aatif:~/Desktop/Assignment-1$ javac *.java
aatif@aatif:~/Desktop/Assignment-1$ rmiregistry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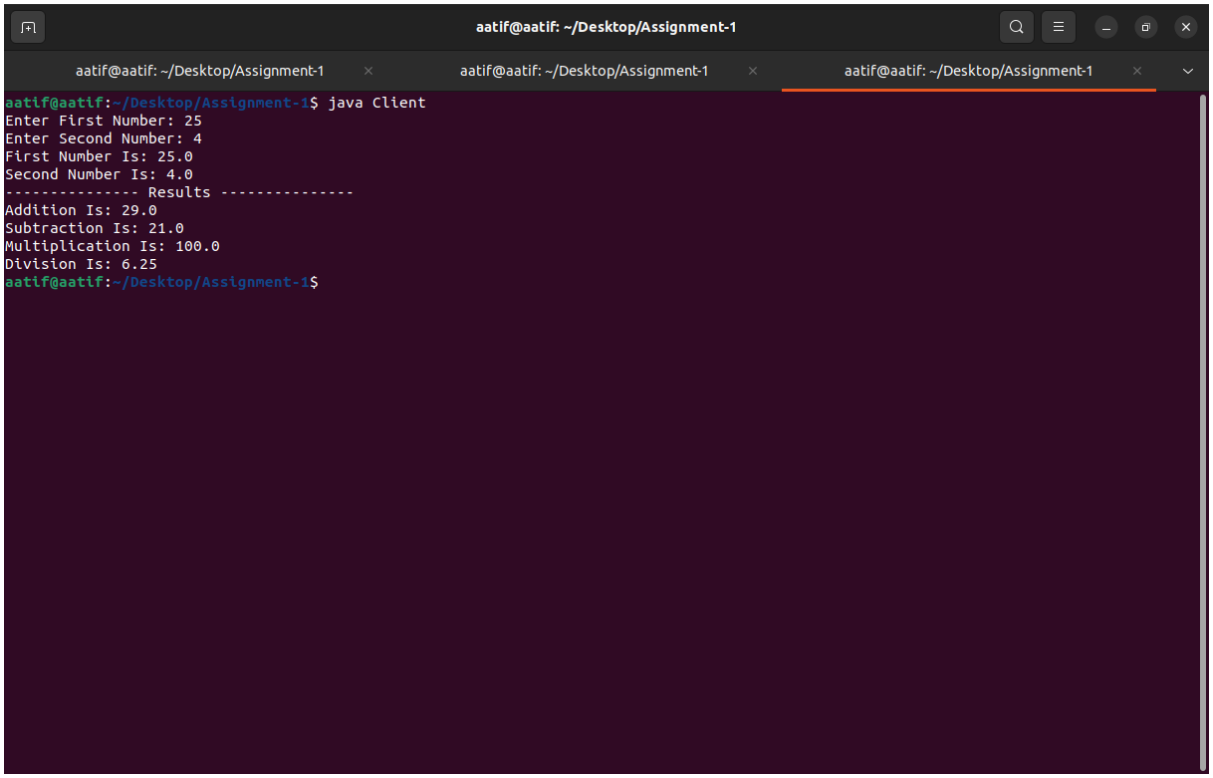
aatif@aatif: ~/Desktop/Assignment-1
aatif@aatif:~/Desktop/Assignment-1$ java Server
Server Started....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aatif@aatif: ~/Desktop/Assignment-1
aatif@aatif: ~/Desktop/Assignment-1
aatif@aatif:~/Desktop/Assignment-1$ java Client
Enter First Number: 25
Enter Second Number: 4
First Number Is: 25.0
Second Number Is: 4.0
-------------- Results --------------
Addition Is: 29.0
Subtraction Is: 21.0
Multiplication Is: 100.0
Division Is: 6.25
aatif@aatif:~/Desktop/Assignment-1$