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Parallel and Distributed Computing(CSE4001)

Lab12- RMI

MulI.java
```java
import java.rmi.Remote;
public interface MulI extends Remote{
    public int mul(int x, int y) throws Exception;
}
```

MulC.java
```java
import java.rmi.RemoteException;
import java.rmi.server.UnicastRemoteObject;

public class MulC extends UnicastRemoteObject implements MulI{
    protected MulC() throws RemoteException{
        super();
    }
    public int mul(int x, int y) throws Exception{
        return x*y;
    }
}
```

Server.java
```java
import java.rmi.Naming;

public class Server{
    public static void main(String[] args) throws Exception{
        MulC obj= new MulC();
        Naming.rebind("MUL",obj);
        System.out.println("server started");
    }
}
```

Client.java
```java
import java.rmi.Naming;

public class Client{
    public static void main(String[] args) throws Exception{
        MulI obj= (MulI)Naming.lookup("MUL");
        int n= obj.mul(2,3);
        System.out.println("Multiplication: "+n);
    }
}
```

```
abhishek_n_n_20bce1025@ud:/mnt/D/5th_fall_sem_22_23/private_5th_fall_sem_22_23/cse4001_pdc_l/lab_12_rmi(main)$ javac *.java
abhishek_n_n_20bce1025@ud:/mnt/D/5th_fall_sem_22_23/private_5th_fall_sem_22_23/cse4001_pdc_l/lab_12_rmi(main)$ rmic MulC
 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 been superseded by dynamically generated stubs.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.
abhishek_n_n_20bce1025@ud:/mnt/D/5th_fall_sem_22_23/private_5th_fall_sem_22_23/cse4001_pdc_l/lab_12_rmi(main)$ rmiregistry &
 [1] 16469
abhishek_n_n_20bce1025@ud:/mnt/D/5th_fall_sem_22_23/private_5th_fall_sem_22_23/cse4001_pdc_l/lab_12_rmi(main)$ java Server
 server started



abhishek_n_n_20bce1025@ud:/mnt/D/5th_fall_sem_22_23/private_5th_fall_sem_22_23/cse4001_pdc_l/lab_12_rmi(main)$ java Client
 Multiplication: 6
abhishek_n_n_20bce1025@ud:/mnt/D/5th_fall_sem_22_23/private_5th_fall_sem_22_23/cse4001_pdc_l/lab_12_rmi(main)$ 
```