

FACTORY ASSIGNMENT - 1

1. Write an RMI using Factory Class to print 'Hello World'

Fact.java

```
import java.rmi.*;

public interface Fact extends Remote
{
    public String getname()throws RemoteException;
}
```

FactImpl.java

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

public class FactImpl extends UnicastRemoteObject implements Fact
{
    String name;

    public FactImpl(String b)throws RemoteException
    {
        name=b;
    }

    public String getname()throws RemoteException
    {
        return name;
    }
}
```

Server.java

```
import java.rmi.*;

public class Server
{
    public static void main(String args[])
    {
        try{
            FactoryImpl ob=new FactoryImpl();
            Naming.rebind("rmi://localhost/Myob",ob);
            System.out.println("Server Running!!!");
        }catch(Exception e)
        {
            e.printStackTrace();
        }
    }
}
```

Client.java

```
import java.rmi.*;

public class Client
{
    public static void main(String args[])throws RemoteException
    {
        try{
            FactoryIntr ob=(FactoryIntr)Naming.lookup("rmi://localhost/Myob");
            Fact b=(Fact)ob.getreference("Hello World!!!");
            String s=b.getname();
            System.out.println(s);
        }
    }
}
```

```
}catch(Exception e){e.printStackTrace();}  
  
}  
  
}
```

FactoryIntr.java

```
import java.rmi.*;  
  
public interface FactoryIntr extends Remote  
{  
  
public Fact getreference(String bname)throws RemoteException;  
  
}
```

FactoryImpl.java

```
import java.rmi.server.*;  
  
import java.rmi.*;  
  
public class FactoryImpl extends UnicastRemoteObject implements  
FactoryIntr{  
  
public FactoryImpl() throws RemoteException {  
super();  
}  
  
public Fact getreference(String bname)  
{  
FactImpl ob=null;  
try{  
ob=new FactImpl(bname);  
}catch(Exception e){}  
return ob;  
}}
```

OUTPUT

```
lavanya@lavanya:~/SEM 4/AJP/LAB/FACTORY/HELLO WORLD$ javac *.java
lavanya@lavanya:~/SEM 4/AJP/LAB/FACTORY/HELLO WORLD$ rmic FactImpl
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been superseded by dynamically generated stubs.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.
lavanya@lavanya:~/SEM 4/AJP/LAB/FACTORY/HELLO WORLD$ rmiregistry &
[1] 9293
lavanya@lavanya:~/SEM 4/AJP/LAB/FACTORY/HELLO WORLD$ java Server
Server Running!!!
```

```
lavanya@lavanya: ~/SEM 4/AJP/LAB/FACTORY/HELLO WORLD
File Edit View Search Terminal Help
lavanya@lavanya:~/SEM 4/AJP/LAB/FACTORY/HELLO WORLD$ java Client
Hello World!!
lavanya@lavanya:~/SEM 4/AJP/LAB/FACTORY/HELLO WORLD$
```