

Assignment 1

1) HelloService.java

```
import java.rmi.Remote;
import java.rmi.RemoteException;

public interface HelloService extends Remote {
    String sayHello() throws RemoteException;
}
```

2) HelloServiceImpl.java

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

public class HelloServiceImpl extends UnicastRemoteObject implements HelloService {
    protected HelloServiceImpl() throws RemoteException {
        super();
    }

    public String sayHello() throws RemoteException {
        return "Hello from Server!";
    }
}
```

3) Server.java

```
import java.rmi.Naming;
import java.rmi.registry.LocateRegistry;

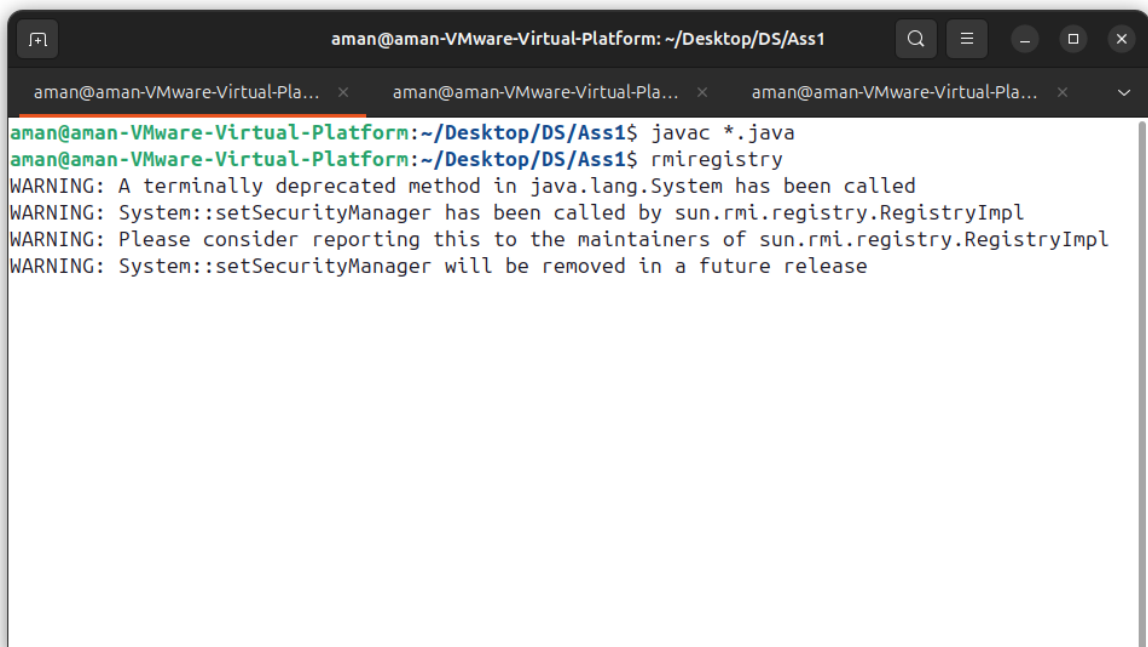
public class Server {
    public static void main(String[] args) {
        try {
            LocateRegistry.createRegistry(1099); // Start RMI Registry
            HelloService service = new HelloServiceImpl();
            Naming.rebind("rmi://localhost/HelloService", service);
            System.out.println("Server is running...");
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

```
}  
}
```

4) Client.java

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

```
public class Client {  
    public static void main(String[] args) {  
        try {  
            HelloService service = (HelloService) Naming.lookup("rmi://localhost/HelloService");  
            System.out.println(service.sayHello()); // Print "Hello from Server!"  
        } catch (Exception e) {  
            e.printStackTrace();  
        }  
    }  
}
```



A screenshot of a terminal window titled 'aman@aman-VMware-Virtual-Platform: ~/Desktop/DS/Ass1'. The terminal shows the following commands and output:

```
aman@aman-VMware-Virtual-Platform:~/Desktop/DS/Ass1$ javac *.java  
aman@aman-VMware-Virtual-Platform:~/Desktop/DS/Ass1$ rmiregistry  
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
```

```
aman@aman-VMware-Virtual-Platform: ~/Desktop/DS/Ass1
aman@aman-VMware-Virtual-Platform:~/Desktop/DS/Ass1$ java Server
Server is running...
```

```
aman@aman-VMware-Virtual-Platform: ~/Desktop/DS/Ass1
aman@aman-VMware-Virtual-Platform:~/Desktop/DS/Ass1$ java Client
Hello from Server!
aman@aman-VMware-Virtual-Platform:~/Desktop/DS/Ass1$
```