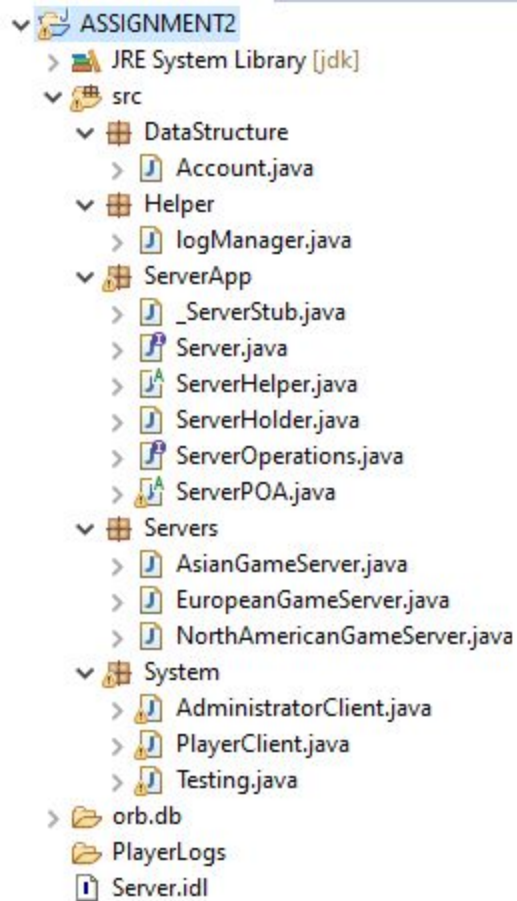


1.Description of the files in the Folder



Server.idl: It is a CORBA IDL interface file written in Interface Definition Language.

System Package contains the

1. AdminstratorClient console for the admins.
2. PlayerClient console for the players.
3. Testing console for testing the application.

Servers Package contains the

1. NorthAmericanGameServer deals with these 132.xxx.xxx.xxx IP'S.
2. EuropeanameServer deals with these 93.xxx.xxx.xxx IP'S
3. AsianGameServer deals with these 182.xxx.xxx.xxx IP'S.

Helper Package contains the

logManager deals with the logging.

DataStructure Package contains the

Account holds the blueprint of the structure.

ServerApp Package contains the

ServerOperations.java:It contains all the methods from the Server.idl file.

Server.java:It is a java interface file which extends ServerOperations.java and CORBA classes(org.omg.CORBA.Object, org.omg.CORBA.portable.IDLEntity)

ServerHelper.java:It contains a narrow method,which casts the CORBA object reference to the corresponding java type.So it can operate on using the syntax of the java object.

ServerHolder.java:It contains a reference to an object that implements the Server interface.

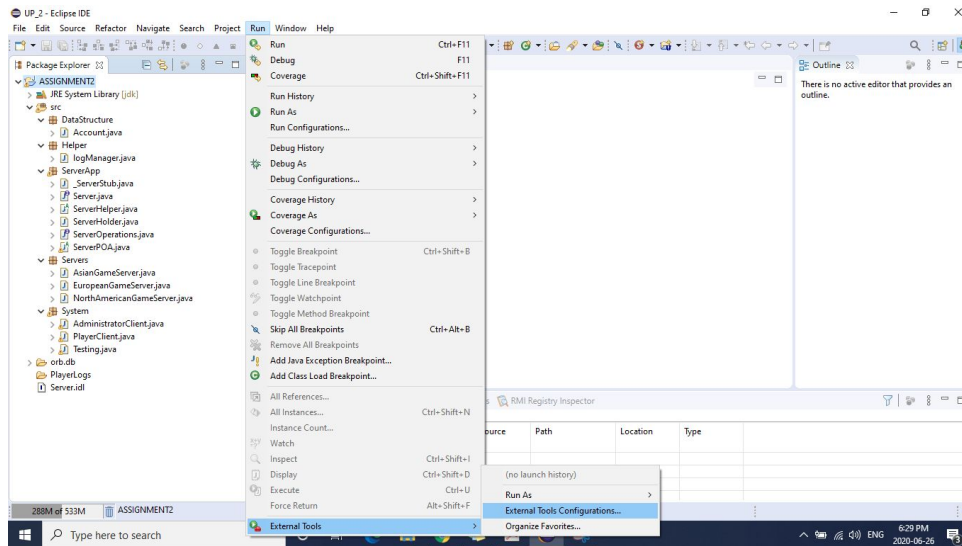
_ServerStub.java:It is the stub file, the client-side proxy, which interfaces with the client object.It extends org.omg.CORBA.portable.ObjectImpl and implements the Server.java interface.

ServerPOA.java:It is a skeleton, the server-side proxy, combined with the portable object adapter.It extends org.omg.PortableServer.Servant, and implements the InvokeHandler interface and the HelloOperations interface.

2.Set up the project

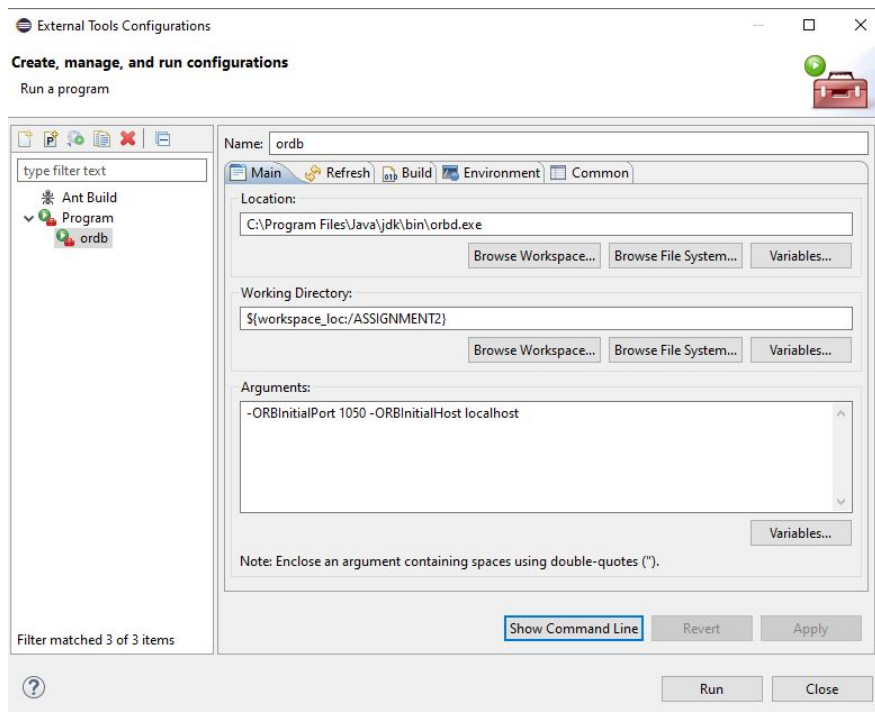
Please follow below steps:

A.Click on the run tab,Hover External tools

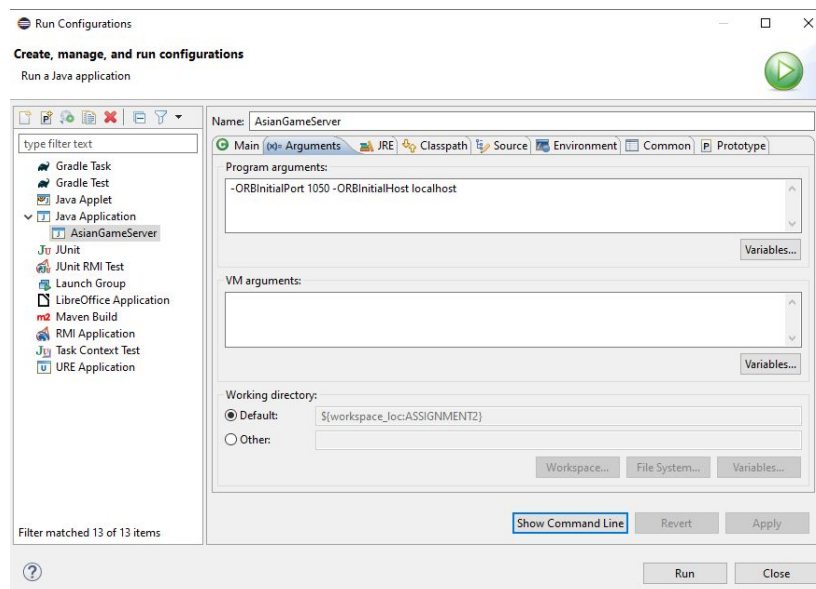
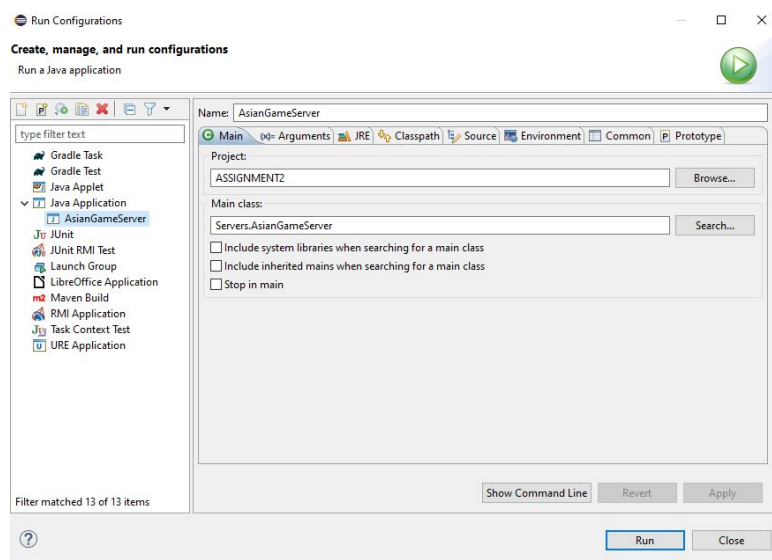
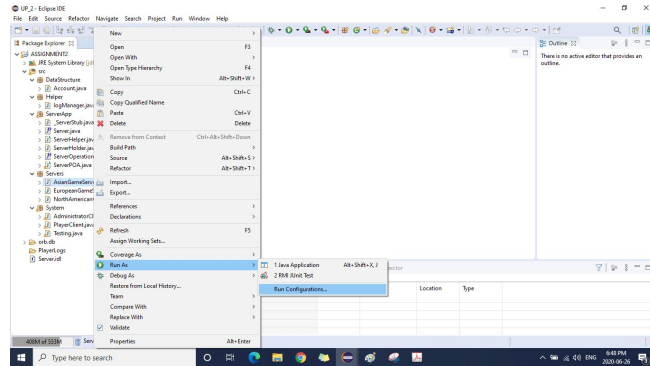


C.Select External tool configuration

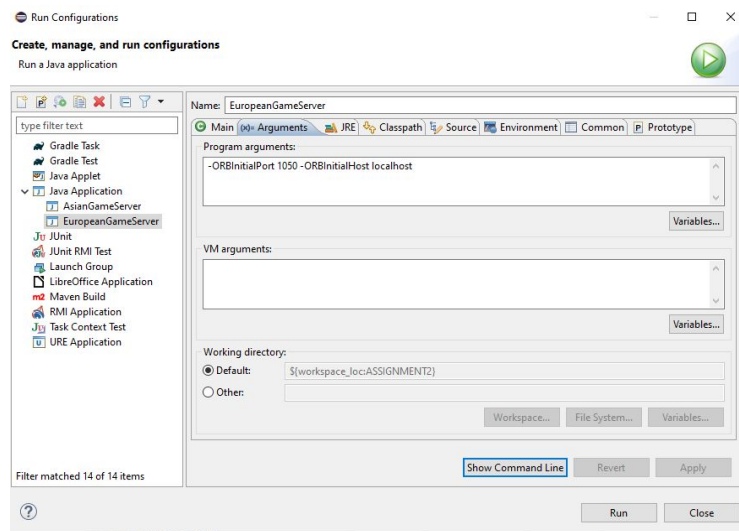
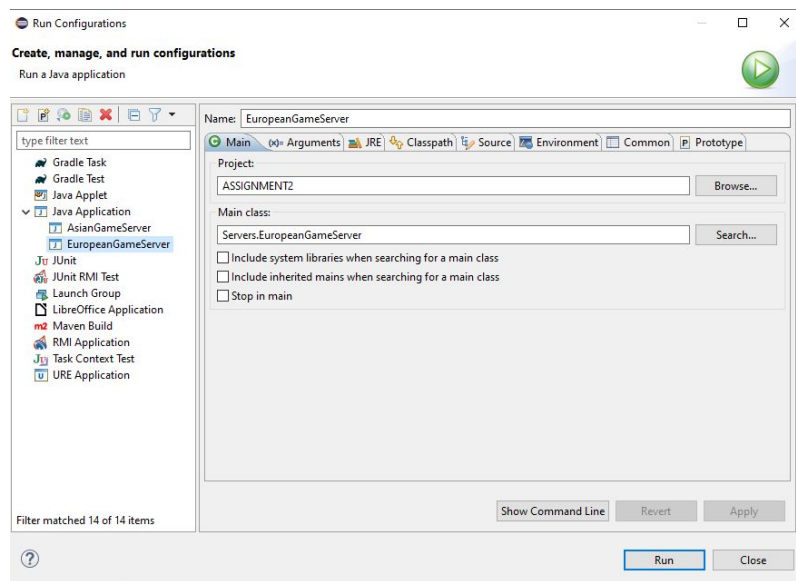
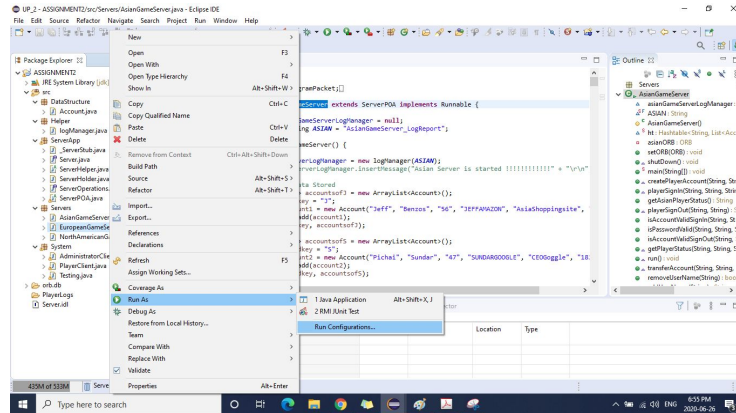
D.Create ordb configuration with the details as in the screenshot.



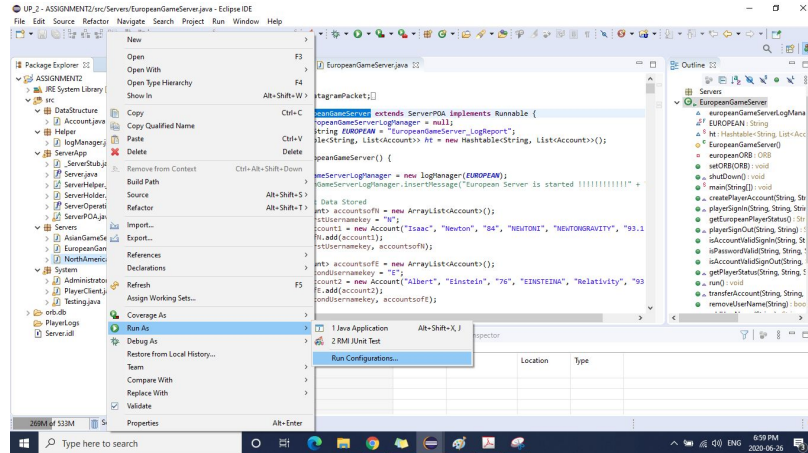
E.Right Click on AsianGameServer.java.Select run configuration and create as below.



F.Right Click on EuropeanGameServer.java.Select run configuration and create as below.

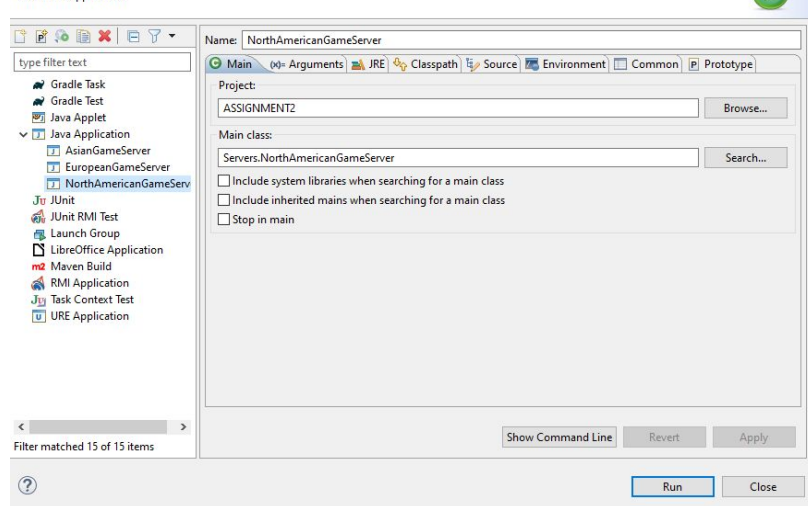


G.Right Click on NorthAmericanGameServer.java.Select run configuration and create as below.



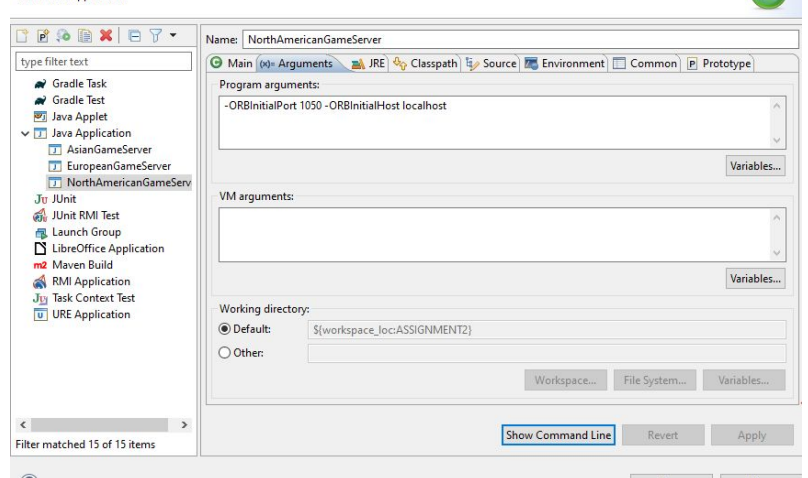
Create, manage, and run configurations

Run a Java application

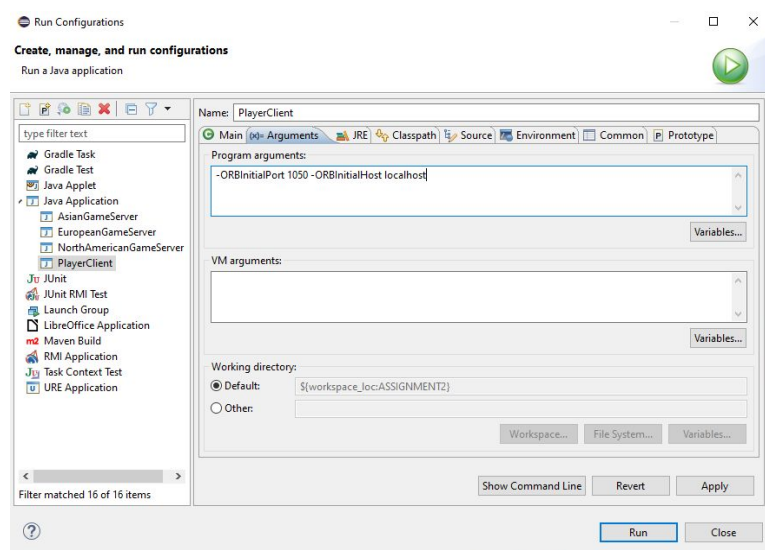
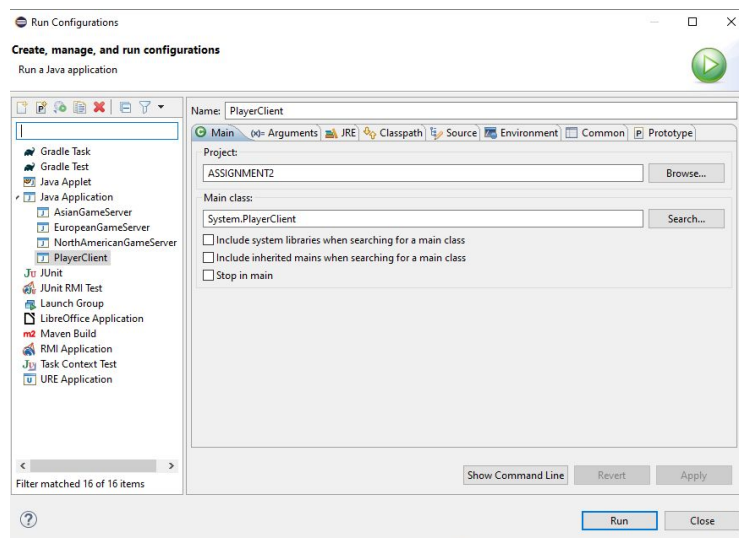
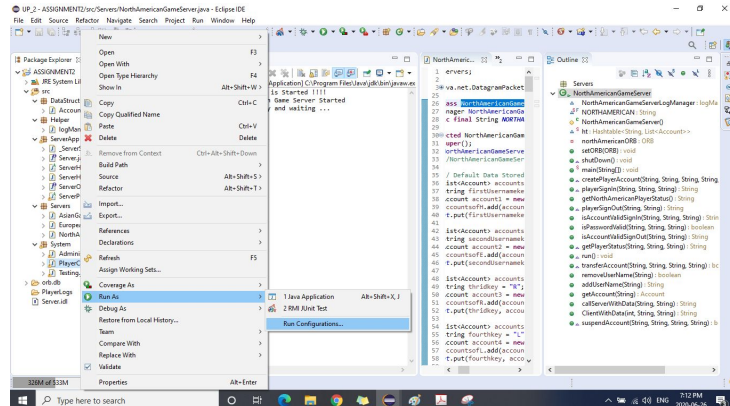


Create, manage, and run configurations

Run a Java application



H.Right Click on PlayerClient.java.Select run configuration and create as below.

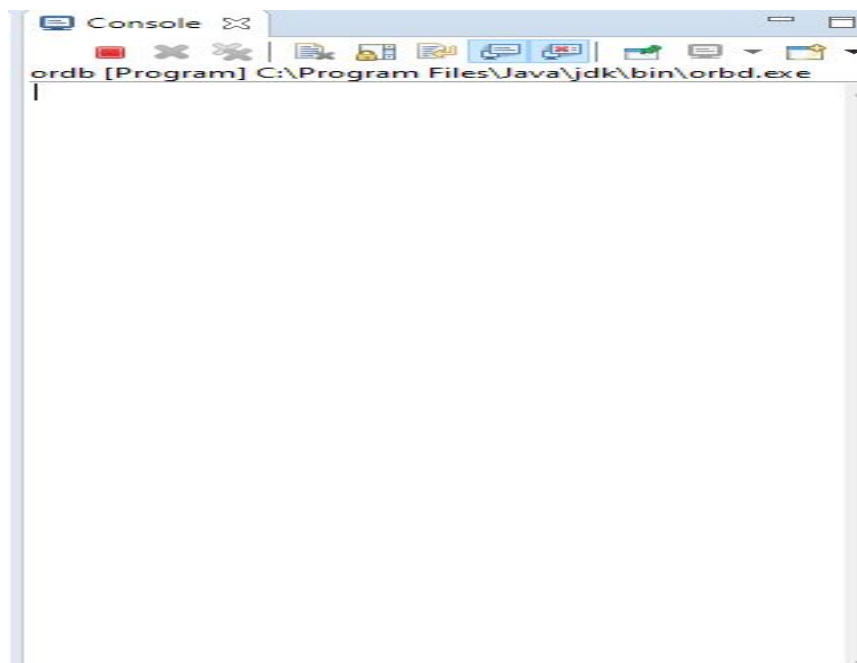
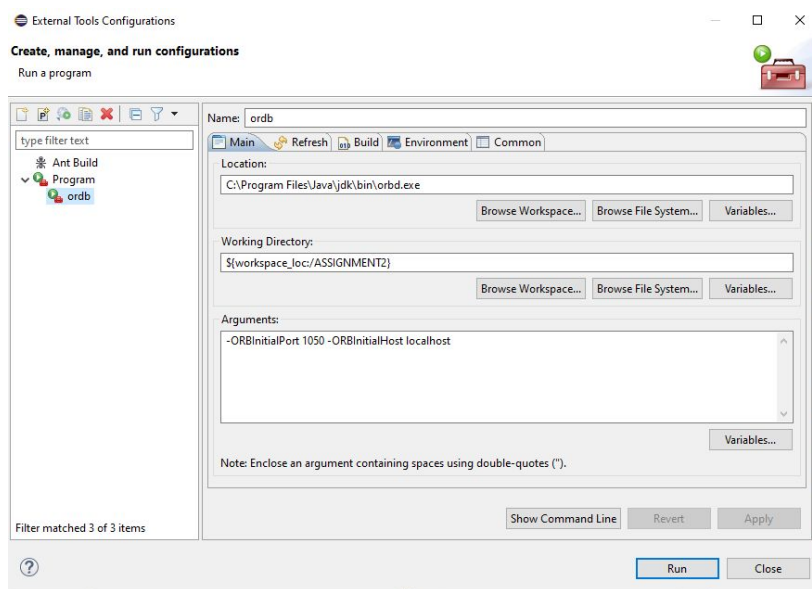


I.Do same for AdministratorClient,Tester.java

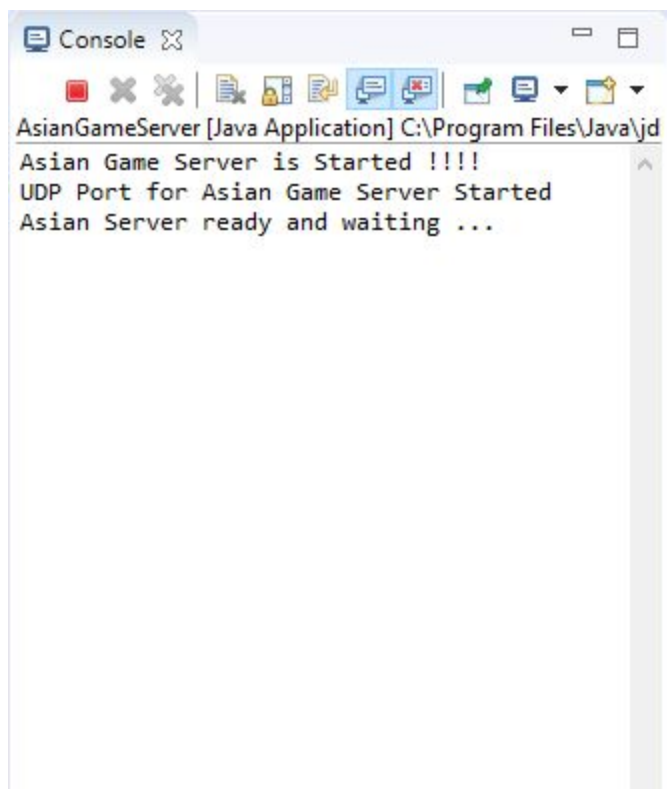
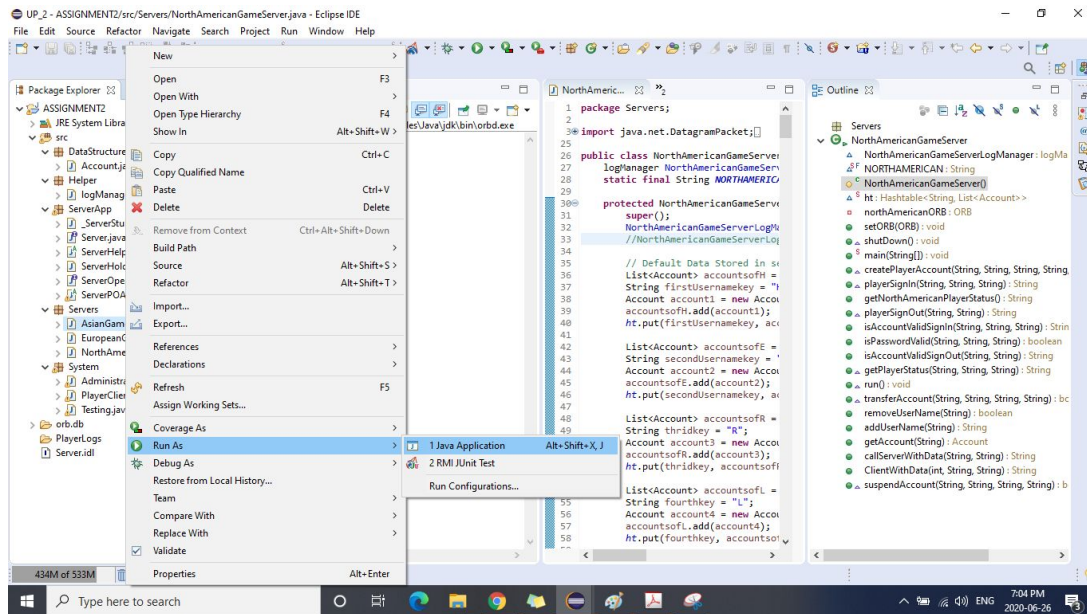
3.Run the project

Please follow below steps:

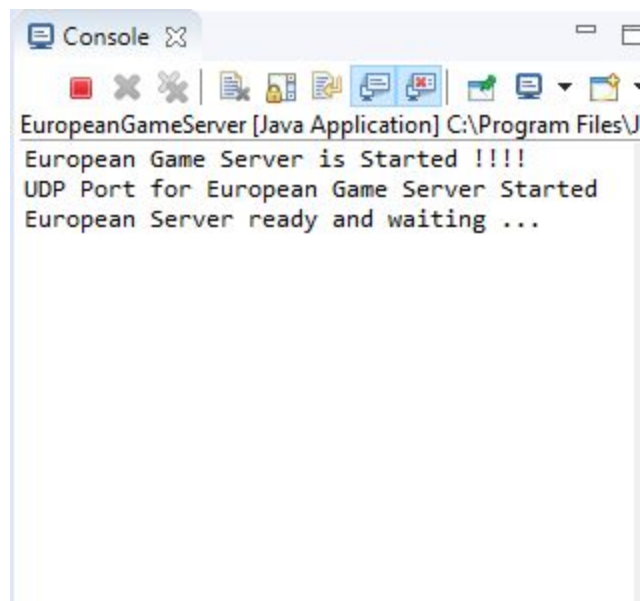
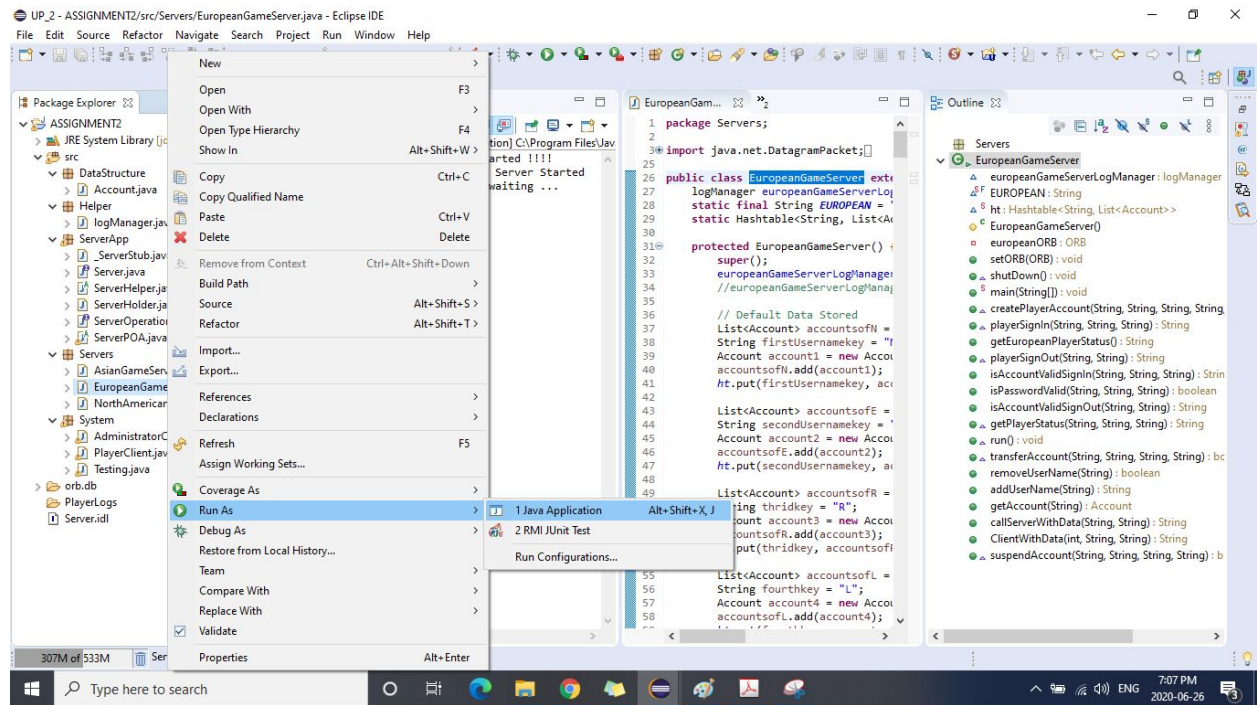
A.Run ordb



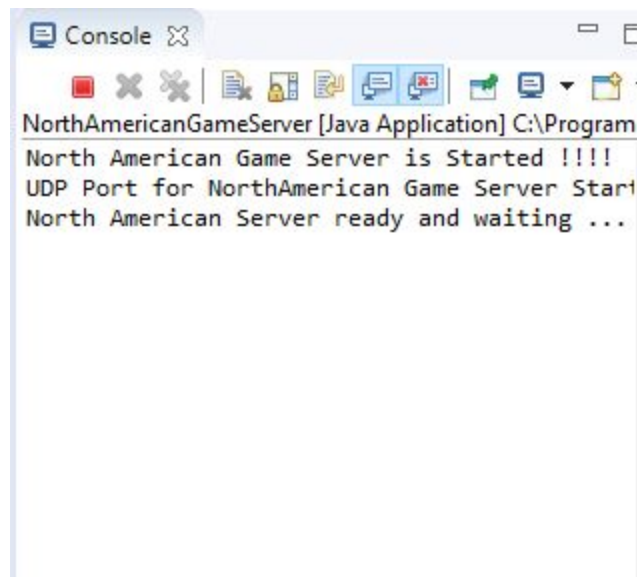
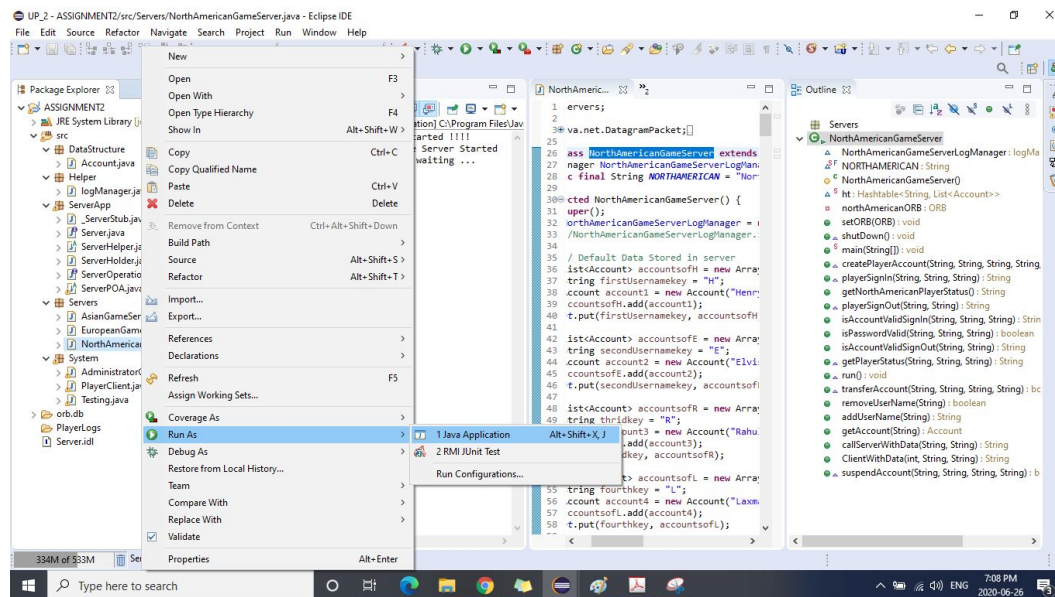
B.Run AsianGameServer as below



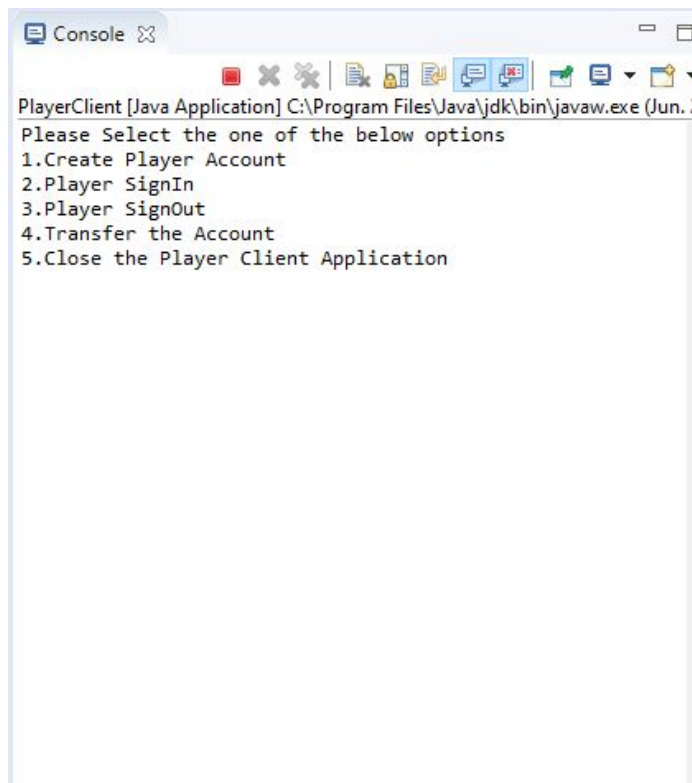
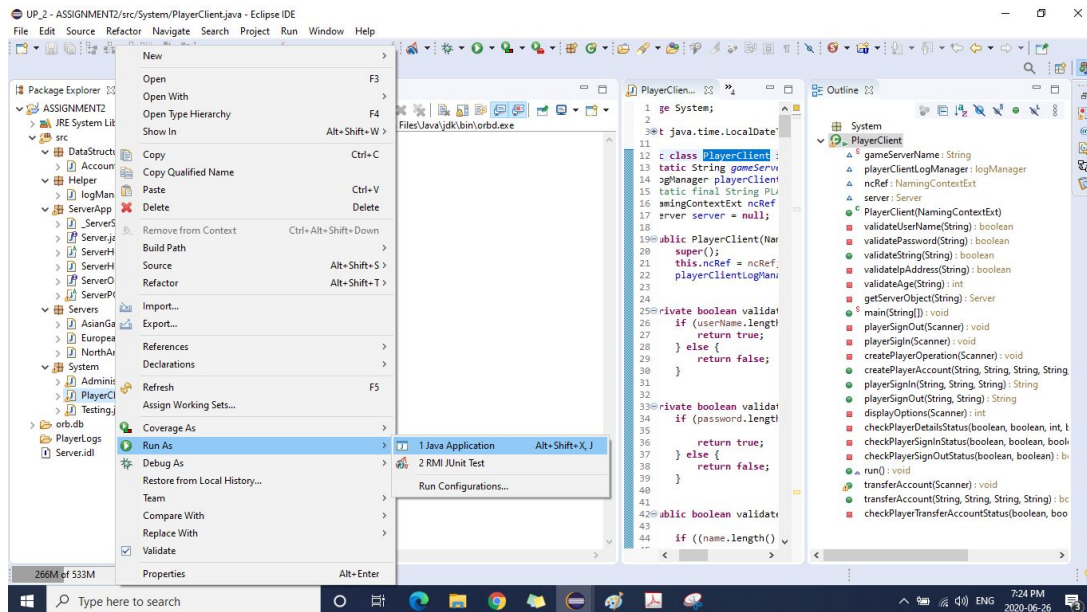
B.Run EuropeanGameServer as below



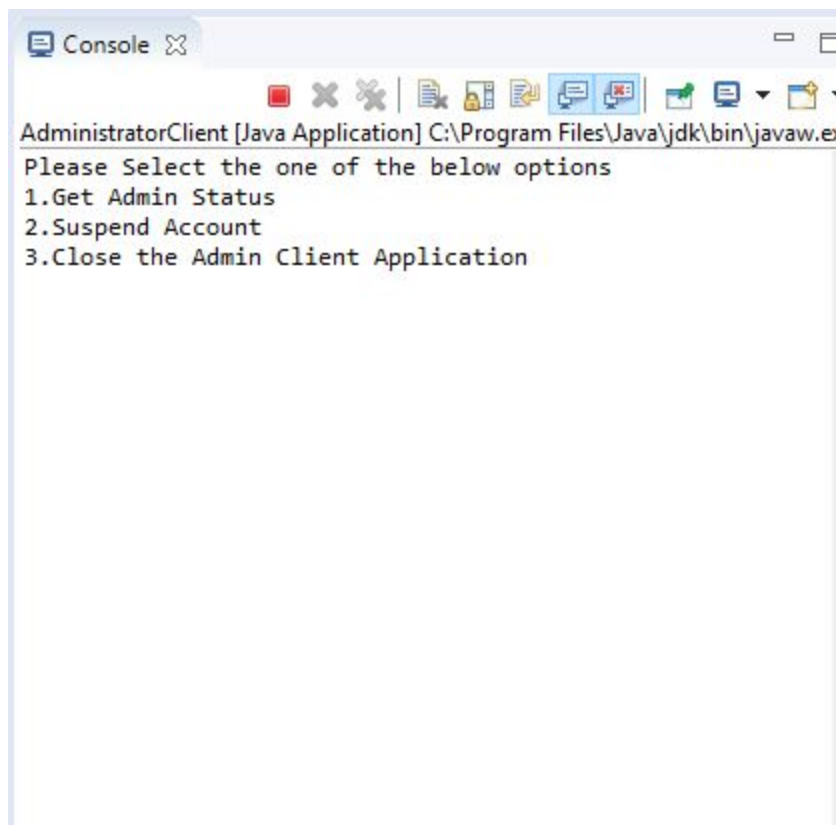
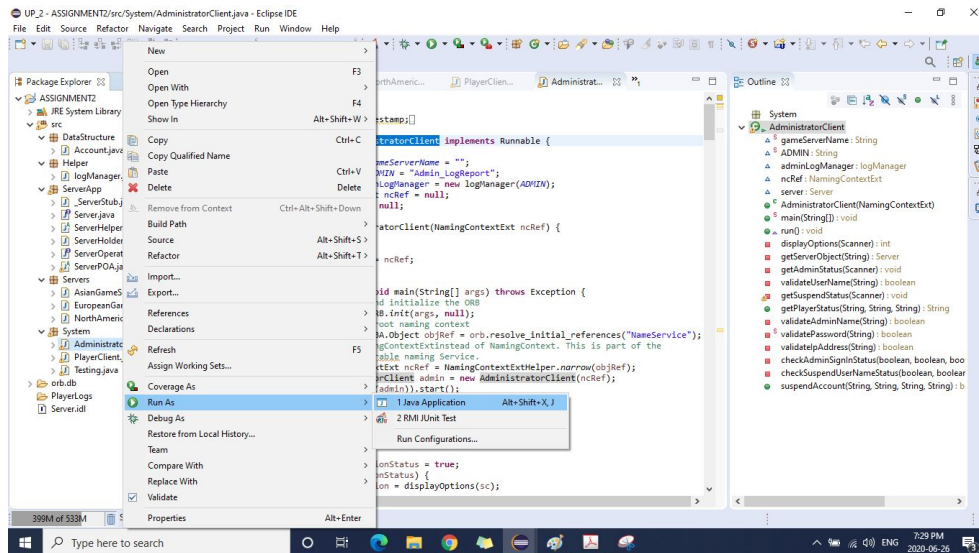
C.Run NorthAmericanGameServer as below



D.Run PlayerClient as below



E.Run AdministratorClient as below



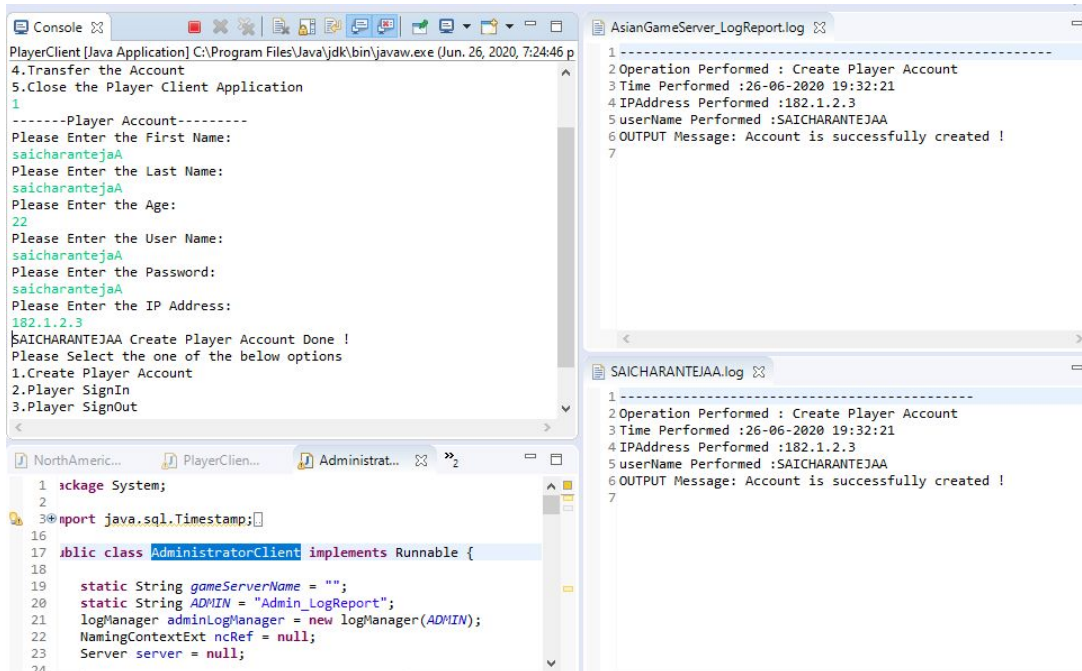
4. Testing

All the docs are in TestCases_Proofs

Screenshots in TestCases_Proof.pdf

Logs of player in PlayerLogs folder

5.Manual Testing for player

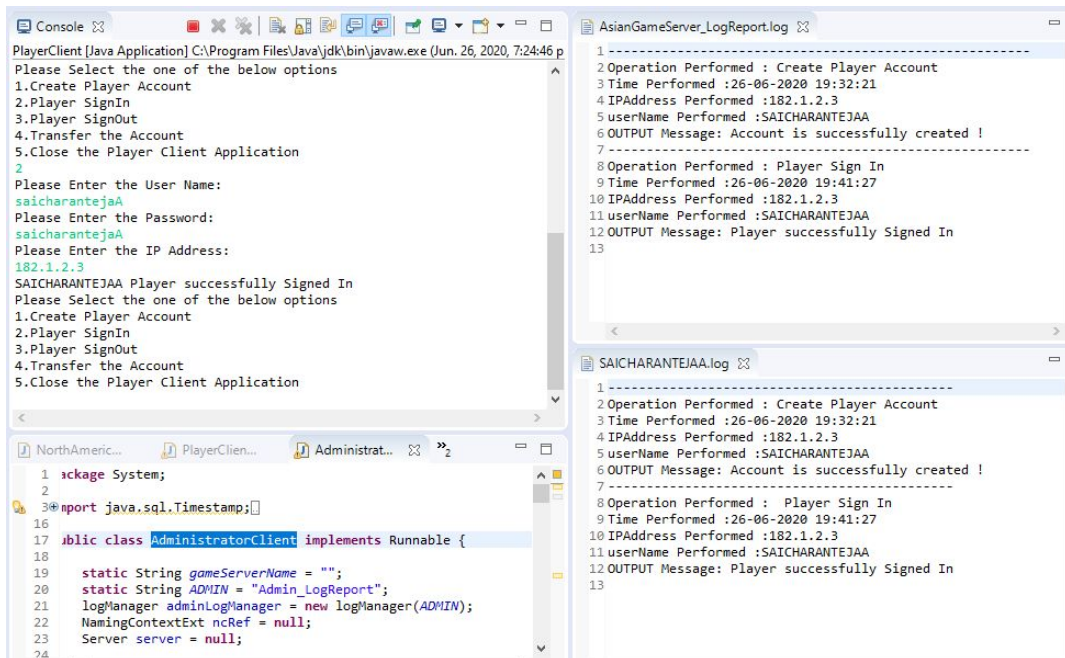


```
Console
PlayerClient [Java Application] C:\Program Files\Java\jdk\bin\javaw.exe (Jun. 26, 2020, 7:24:46 p
4.Transfer the Account
5.Close the Player Client Application
1
-----Player Account-----
Please Enter the First Name:
saicharantejaa
Please Enter the Last Name:
saicharantejaa
Please Enter the Age:
22
Please Enter the User Name:
saicharantejaa
Please Enter the Password:
saicharantejaa
Please Enter the IP Address:
182.1.2.3
SAICHARANTEJAA Create Player Account Done !
Please Select the one of the below options
1.Create Player Account
2.Player SignIn
3.Player SignOut

NorthAmeric... PlayerClie... Administrat... »2
1 package System;
2
3 import java.sql.Timestamp;
16
17 public class AdministratorClient implements Runnable {
18
19     static String gameServerName = "";
20     static String ADMIN = "Admin_LogReport";
21     LogManager adminLogManager = new LogManager(ADMIN);
22     NamingContextExt ncRef = null;
23     Server server = null;
24
```

```
AsianGameServer_LogReport.log
1 -----
2 Operation Performed : Create Player Account
3 Time Performed :26-06-2020 19:32:21
4 IPAddress Performed :182.1.2.3
5 UserName Performed :SAICHARANTEJAA
6 OUTPUT Message: Account is successfully created !
7

SAICHARANTEJAA.log
1 -----
2 Operation Performed : Create Player Account
3 Time Performed :26-06-2020 19:32:21
4 IPAddress Performed :182.1.2.3
5 UserName Performed :SAICHARANTEJAA
6 OUTPUT Message: Account is successfully created !
7
```



```
Console
PlayerClient [Java Application] C:\Program Files\Java\jdk\bin\javaw.exe (Jun. 26, 2020, 7:24:46 p
1.Create Player Account
2.Player SignIn
3.Player SignOut
4.Transfer the Account
5.Close the Player Client Application
2
Please Enter the User Name:
saicharantejaa
Please Enter the Password:
saicharantejaa
Please Enter the IP Address:
182.1.2.3
SAICHARANTEJAA Player successfully Signed In
Please Select the one of the below options
1.Create Player Account
2.Player SignIn
3.Player SignOut
4.Transfer the Account
5.Close the Player Client Application

NorthAmeric... PlayerClie... Administrat... »2
1 package System;
2
3 import java.sql.Timestamp;
16
17 public class AdministratorClient implements Runnable {
18
19     static String gameServerName = "";
20     static String ADMIN = "Admin_LogReport";
21     LogManager adminLogManager = new LogManager(ADMIN);
22     NamingContextExt ncRef = null;
23     Server server = null;
24
```

```
AsianGameServer_LogReport.log
1 -----
2 Operation Performed : Create Player Account
3 Time Performed :26-06-2020 19:32:21
4 IPAddress Performed :182.1.2.3
5 UserName Performed :SAICHARANTEJAA
6 OUTPUT Message: Account is successfully created !
7 -----
8 Operation Performed : Player Sign In
9 Time Performed :26-06-2020 19:41:27
10 IPAddress Performed :182.1.2.3
11 UserName Performed :SAICHARANTEJAA
12 OUTPUT Message: Player successfully Signed In
13

SAICHARANTEJAA.log
1 -----
2 Operation Performed : Create Player Account
3 Time Performed :26-06-2020 19:32:21
4 IPAddress Performed :182.1.2.3
5 UserName Performed :SAICHARANTEJAA
6 OUTPUT Message: Account is successfully created !
7 -----
8 Operation Performed : Player Sign In
9 Time Performed :26-06-2020 19:41:27
10 IPAddress Performed :182.1.2.3
11 UserName Performed :SAICHARANTEJAA
12 OUTPUT Message: Player successfully Signed In
13
```


Console

PlayerClient [Java Application] C:\Program Files\Java\jdk\bin\javaw.exe (Jun. 26, 2020, 7:24:46 p
Please Enter the IP Address:
182.1.2.3
SAICHARANTEJAA Player successfully Signed In
Please Select the one of the below options
1.Create Player Account
2.Player SignIn
3.Player SignOut
4.Transfer the Account
5.Close the Player Client Application
3
Please Enter the User Name:
saicharantejaa
Please Enter the IP Address:
182.1.2.3
SAICHARANTEJAA Player successfully Signed Out
Please Select the one of the below options
1.Create Player Account
2.Player SignIn
3.Player SignOut
4.Transfer the Account
5.Close the Player Client Application

AsianGameServer_LogReport.log

2 Operation Performed : Create Player Account
3 Time Performed :26-06-2020 19:32:21
4 IPAddress Performed :182.1.2.3
5 userName Performed :SAICHARANTEJAA
6 OUTPUT Message: Account is successfully created !
7 -----
8 Operation Performed : Player Sign In
9 Time Performed :26-06-2020 19:41:27
10 IPAddress Performed :182.1.2.3
11 userName Performed :SAICHARANTEJAA
12 OUTPUT Message: Player successfully Signed In
13 -----
14 Operation Performed : Player Sign Out
15 Time Performed :26-06-2020 19:42:40
16 IPAddress Performed :182.1.2.3
17 userName Performed :SAICHARANTEJAA
18 OUTPUT Message: Player successfully Signed Out
19

SAICHARANTEJAA.log

2 Operation Performed : Create Player Account
3 Time Performed :26-06-2020 19:32:21
4 IPAddress Performed :182.1.2.3
5 userName Performed :SAICHARANTEJAA
6 OUTPUT Message: Account is successfully created !
7 -----
8 Operation Performed : Player Sign In
9 Time Performed :26-06-2020 19:41:27
10 IPAddress Performed :182.1.2.3
11 userName Performed :SAICHARANTEJAA
12 OUTPUT Message: Player successfully Signed In
13 -----
14 Operation Performed : Player Sign Out
15 Time Performed :26-06-2020 19:42:40
16 IPAddress Performed :182.1.2.3
17 userName Performed :SAICHARANTEJAA
18 OUTPUT Message: Player successfully Signed Out
19

NorthAmeric... PlayerClie... Administrat... »2

1 ackage System;
2
3 import java.sql.Timestamp;
16
17 public class AdministratorClient implements Runnable {
18
19 static String gameServerName = "";
20 static String ADMIN = "Admin_LogReport";
21 LogManager adminLogManager = new LogManager(ADMIN);
22 NamingContextExt ncRef = null;
23 Server server = null;
24

Console

PlayerClient [Java Application] C:\Program Files\Java\jdk\bin\javaw.exe (Jun. 26, 2020, 7:48:05
Please Enter the IP Address:
182.1.2.3
SAICHARANTEJAA Player successfully Signed In
Please Select the one of the below options
1.Create Player Account
2.Player SignIn
3.Player SignOut
4.Transfer the Account
5.Close the Player Client Application
3
Please Enter the User Name:
saicharantejaa
Please Enter the IP Address:
182.1.2.3
SAICHARANTEJAA Player successfully Signed Out
Please Select the one of the below options
1.Create Player Account
2.Player SignIn
3.Player SignOut
4.Transfer the Account
5.Close the Player Client Application
4
Please Enter the User Name:
saicharantejaa
Please Enter the Password:
saicharantejaa
Please Enter the IP Address:
182.1.2.3
Please Enter the new IP Address:
93.1.2.3
Transfer Account Done !
Please Select the one of the below options
1.Create Player Account
2.Player SignIn
3.Player SignOut
4.Transfer the Account
5.Close the Player Client Application

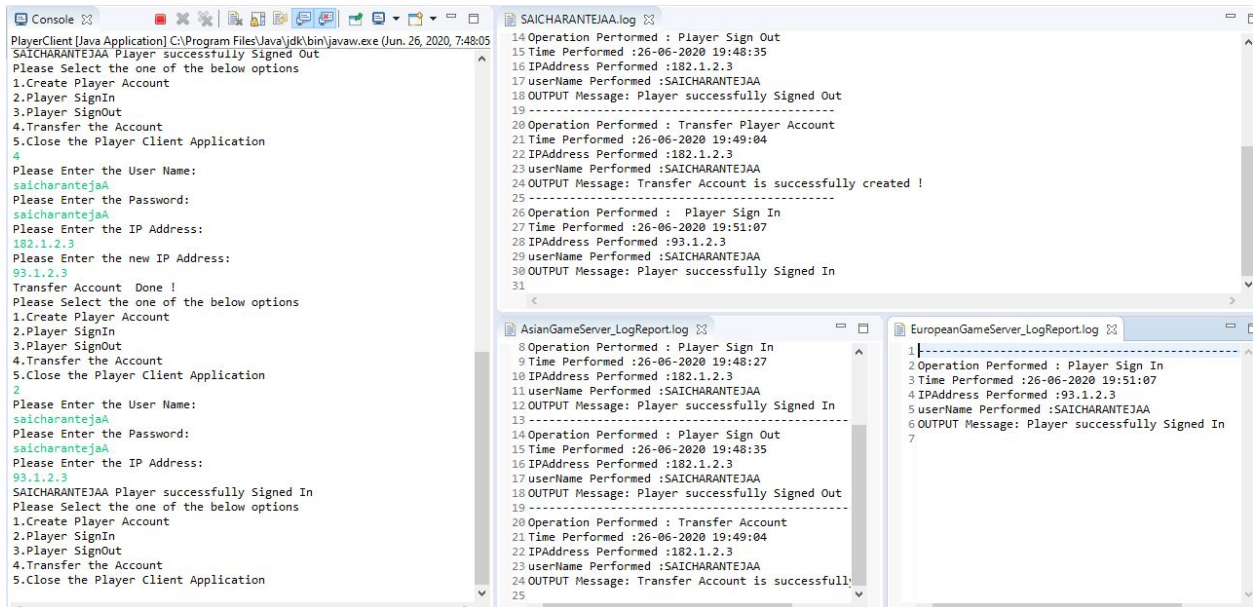
SAICHARANTEJAA.log

8 Operation Performed : Player Sign In
9 Time Performed :26-06-2020 19:48:27
10 IPAddress Performed :182.1.2.3
11 userName Performed :SAICHARANTEJAA
12 OUTPUT Message: Player successfully Signed In
13 -----
14 Operation Performed : Player Sign Out
15 Time Performed :26-06-2020 19:48:35
16 IPAddress Performed :182.1.2.3
17 userName Performed :SAICHARANTEJAA
18 OUTPUT Message: Player successfully Signed Out
19 -----
20 Operation Performed : Transfer Player Account
21 Time Performed :26-06-2020 19:49:04
22 IPAddress Performed :182.1.2.3
23 userName Performed :SAICHARANTEJAA
24 OUTPUT Message: Transfer Account is successfully created !
25

AsianGameServer_LogReport.log

8 Operation Performed : Player Sign In
9 Time Performed :26-06-2020 19:48:27
10 IPAddress Performed :182.1.2.3
11 userName Performed :SAICHARANTEJAA
12 OUTPUT Message: Player successfully Signed In
13 -----
14 Operation Performed : Player Sign Out
15 Time Performed :26-06-2020 19:48:35
16 IPAddress Performed :182.1.2.3
17 userName Performed :SAICHARANTEJAA
18 OUTPUT Message: Player successfully Signed Out
19 -----
20 Operation Performed : Transfer Account
21 Time Performed :26-06-2020 19:49:04
22 IPAddress Performed :182.1.2.3
23 userName Performed :SAICHARANTEJAA
24 OUTPUT Message: Transfer Account is successfully !
25

Check transfer account in new Ip Address



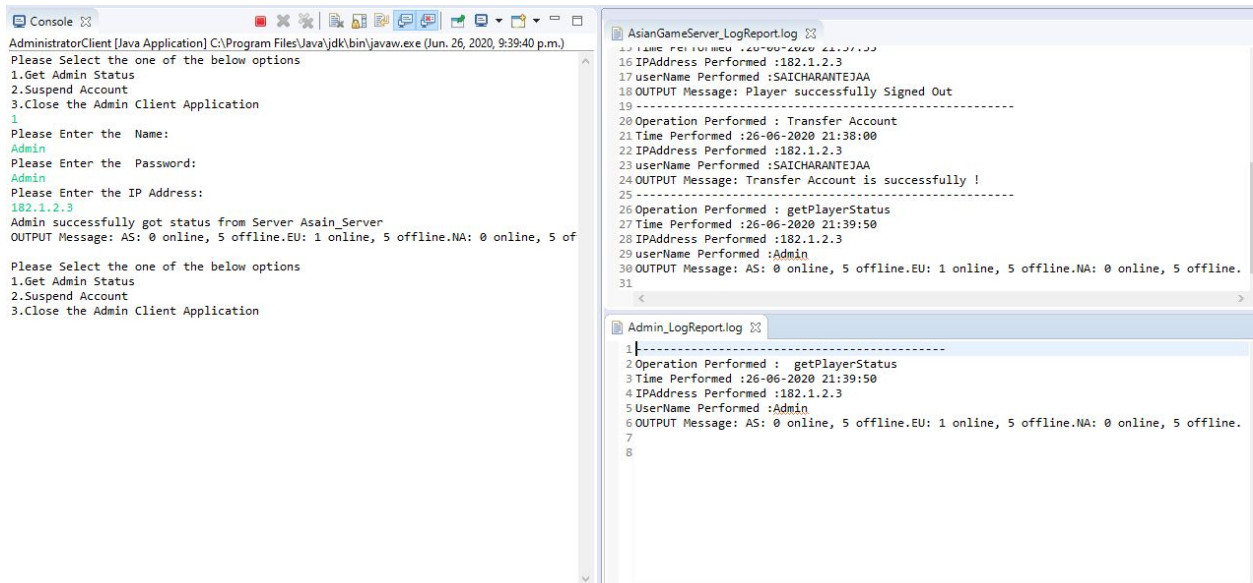
The screenshot displays a Java application window titled "PlayerClient [Java Application]". The console shows the following sequence of events:

- SAICHARANTEJAA Player successfully Signed Out
- Please Select the one of the below options
- 1.Create Player Account
- 2.Player SignIn
- 3.Player SignOut
- 4.Transfer the Account
- 5.Close the Player Client Application
- 4
- Please Enter the User Name: saicharantejaA
- Please Enter the Password: saicharantejaA
- Please Enter the IP Address: 182.1.2.3
- Please Enter the new IP Address: 93.1.2.3
- Transfer Account Done !
- Please Select the one of the below options
- 1.Create Player Account
- 2.Player SignIn
- 3.Player SignOut
- 4.Transfer the Account
- 5.Close the Player Client Application
- 2
- Please Enter the User Name: saicharantejaA
- Please Enter the Password: saicharantejaA
- Please Enter the IP Address: 93.1.2.3
- SAICHARANTEJAA Player successfully Signed In
- Please Select the one of the below options
- 1.Create Player Account
- 2.Player SignIn
- 3.Player SignOut
- 4.Transfer the Account
- 5.Close the Player Client Application

The application also displays three log windows:

- SAICHARANTEJAA.log**:
 - 14 Operation Performed : Player Sign Out
 - 15 Time Performed :26-06-2020 19:48:35
 - 16 IPAddress Performed :182.1.2.3
 - 17 userName Performed :SAICHARANTEJAA
 - 18 OUTPUT Message: Player successfully Signed Out
 - 19 -----
 - 20 Operation Performed : Transfer Player Account
 - 21 Time Performed :26-06-2020 19:49:04
 - 22 IPAddress Performed :182.1.2.3
 - 23 userName Performed :SAICHARANTEJAA
 - 24 OUTPUT Message: Transfer Account is successfully created !
 - 25 -----
 - 26 Operation Performed : Player Sign In
 - 27 Time Performed :26-06-2020 19:51:07
 - 28 IPAddress Performed :93.1.2.3
 - 29 userName Performed :SAICHARANTEJAA
 - 30 OUTPUT Message: Player successfully Signed In
 - 31
- AsianGameServer_LogReport.log**:
 - 8 Operation Performed : Player Sign In
 - 9 Time Performed :26-06-2020 19:48:27
 - 10 IPAddress Performed :182.1.2.3
 - 11 userName Performed :SAICHARANTEJAA
 - 12 OUTPUT Message: Player successfully Signed In
 - 13 -----
 - 14 Operation Performed : Player Sign Out
 - 15 Time Performed :26-06-2020 19:48:35
 - 16 IPAddress Performed :182.1.2.3
 - 17 userName Performed :SAICHARANTEJAA
 - 18 OUTPUT Message: Player successfully Signed Out
 - 19 -----
 - 20 Operation Performed : Transfer Account
 - 21 Time Performed :26-06-2020 19:49:04
 - 22 IPAddress Performed :182.1.2.3
 - 23 userName Performed :SAICHARANTEJAA
 - 24 OUTPUT Message: Transfer Account is successfully
 - 25
- EuropeanGameServer_LogReport.log**:
 - 1 -----
 - 2 Operation Performed : Player Sign In
 - 3 Time Performed :26-06-2020 19:51:07
 - 4 IPAddress Performed :93.1.2.3
 - 5 userName Performed :SAICHARANTEJAA
 - 6 OUTPUT Message: Player successfully Signed In
 - 7

6.Manual Testing for Admin



The screenshot displays a Java application window titled "AdministratorClient [Java Application]". The console shows the following sequence of events:

- Please Select the one of the below options
- 1.Get Admin Status
- 2.Suspend Account
- 3.Close the Admin Client Application
- 1
- Please Enter the Name: Admin
- Please Enter the Password: Admin
- Please Enter the IP Address: 182.1.2.3
- Admin successfully got status from Server Asain_Server
- OUTPUT Message: AS: 0 online, 5 offline.EU: 1 online, 5 offline.NA: 0 online, 5 of
- Please Select the one of the below options
- 1.Get Admin Status
- 2.Suspend Account
- 3.Close the Admin Client Application

The application also displays two log windows:

- AsianGameServer_LogReport.log**:
 - 16 IPAddress Performed :182.1.2.3
 - 17 userName Performed :SAICHARANTEJAA
 - 18 OUTPUT Message: Player successfully Signed Out
 - 19 -----
 - 20 Operation Performed : Transfer Account
 - 21 Time Performed :26-06-2020 21:38:00
 - 22 IPAddress Performed :182.1.2.3
 - 23 userName Performed :SAICHARANTEJAA
 - 24 OUTPUT Message: Transfer Account is successfully !
 - 25 -----
 - 26 Operation Performed : getPlayerStatus
 - 27 Time Performed :26-06-2020 21:39:50
 - 28 IPAddress Performed :182.1.2.3
 - 29 userName Performed :Admin
 - 30 OUTPUT Message: AS: 0 online, 5 offline.EU: 1 online, 5 offline.NA: 0 online, 5 offline.
 - 31
- Admin_LogReport.log**:
 - 1 -----
 - 2 Operation Performed : getPlayerStatus
 - 3 Time Performed :26-06-2020 21:39:50
 - 4 IPAddress Performed :182.1.2.3
 - 5 UserName Performed :Admin
 - 6 OUTPUT Message: AS: 0 online, 5 offline.EU: 1 online, 5 offline.NA: 0 online, 5 offline.
 - 7
 - 8

The screenshot displays a Java application window titled 'AdministratorClient [Java Application]' running at 'C:\Program Files\Java\jdk\bin\javaw.exe (Jun. 26, 2020, 9:39:40 p.m.)'. The console shows a menu with three options: '1. Get Admin Status', '2. Suspend Account', and '3. Close the Admin Client Application'. The user selects option 1, enters 'Admin' as the name and password, and '182.1.2.3' as the IP address. The application then displays the status of the 'Asain_Server': 'AS: 0 online, 5 offline.EU: 1 online, 5 offline.NA: 0 online, 5 offline'. The user then selects option 2, enters 'JEFFAWAZON' as the account name to suspend, and the application confirms: 'Admin successfully suspended account in Server Asain_Server'. The user then selects option 3 to close the application.

Two log files are also visible. The 'AsianGameServer_LogReport.log' file contains the following log entries:

```
21 Time Performed : 26-06-2020 21:39:50
22 IPAddress Performed : 182.1.2.3
23 userName Performed : SAICHARANTEJAA
24 OUTPUT Message: Transfer Account is successfully !
25 -----
26 Operation Performed : getPlayerStatus
27 Time Performed : 26-06-2020 21:39:50
28 IPAddress Performed : 182.1.2.3
29 userName Performed : Admin
30 OUTPUT Message: AS: 0 online, 5 offline.EU: 1 online, 5 offline.NA: 0 online, 5 offline
31 -----
32 Operation Performed : Suspend Account
33 Time Performed : 26-06-2020 21:41:52
34 IPAddress Performed : 182.1.2.3
35 userName Performed : Admin
36 OUTPUT Message: Suspend Account is successfully !
37
```

The 'Admin_LogReport.log' file contains the following log entries:

```
1 -----
2 Operation Performed : getPlayerStatus
3 Time Performed : 26-06-2020 21:39:50
4 IPAddress Performed : 182.1.2.3
5 UserName Performed : Admin
6 OUTPUT Message: AS: 0 online, 5 offline.EU: 1 online, 5 offline.NA: 0 online, 5 offline
7 -----
8 -----
9 Operation Performed : suspend Account
10 Time Performed : 26-06-2020 21:41:52
11 IPAddress Performed : 182.1.2.3
12 UserName Performed : Admin
13 OUTPUT Message: Admin successfully suspended account in Server
14
```

Logs are placed in Manual Testing Proof Logs Folder