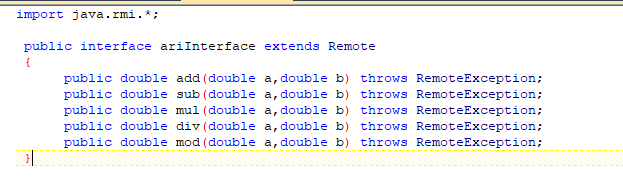
**Lab: 03**

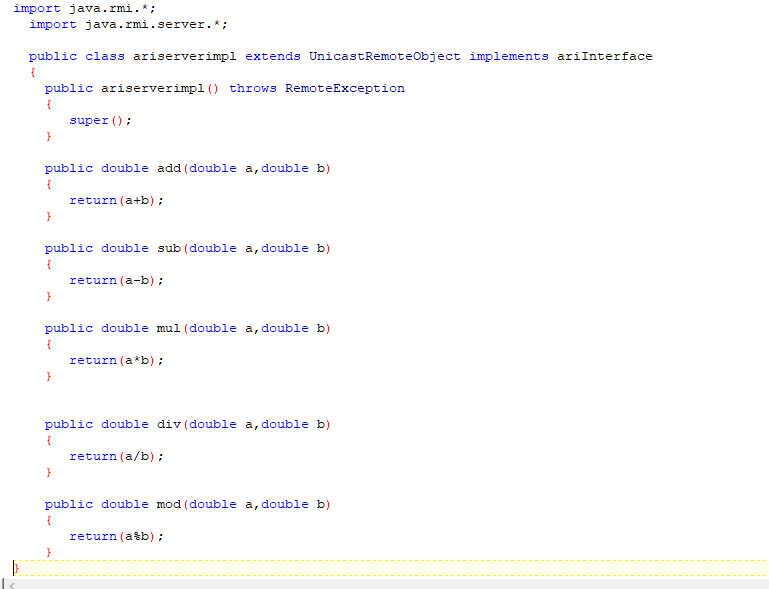
**Object: To learn RMI basics: Generate the stubs and skeletons and run client and server.**

**Task1: Create RMI program in which server performs basic arithmetic operations.**

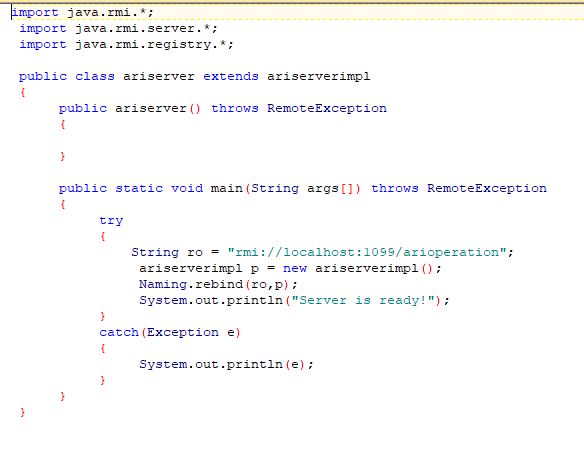
**1)Interface on both client and server side.**

****

**2)Server Remote object class:**

****

**3)Server main class:**

****

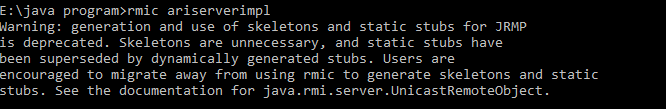
**4)Client main class:**

****

**Output:**

**First compile all the classes.**

**Then create skeleton of server remote object class:**

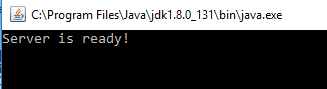
****

**Then start registry to register server remote object.**

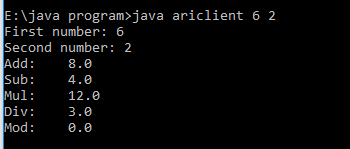
****

**Then run server main class:**

****

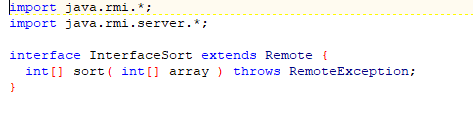
****

**And finally run client main class:**

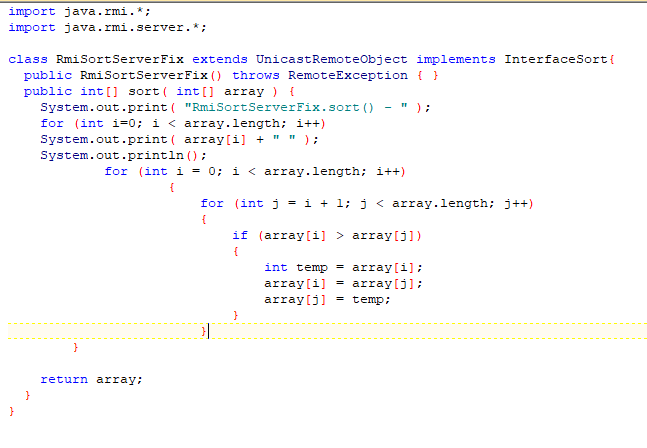
****

**Task2:** **Create RMI program in which server sorts the numbers in ascending order.**

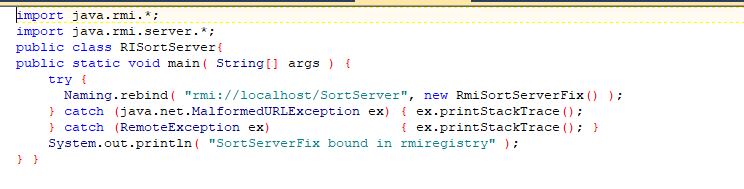
**1)Interface on both client and server side.**

****

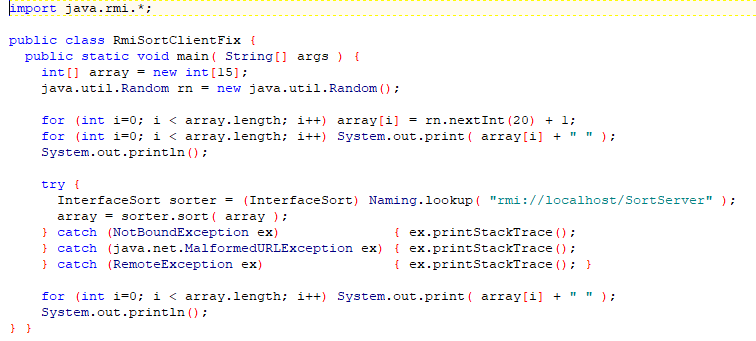
**2)Server Remote object class:**

****

**3)Server main class:**

****

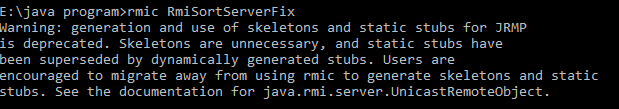
**4)Client main class:**

****

**Output:**

**First compile all the classes.**

**Then create skeleton of server remote object class:**

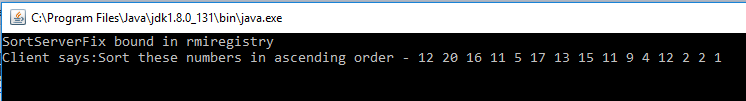
****

**Then start registry to register server remote object.**

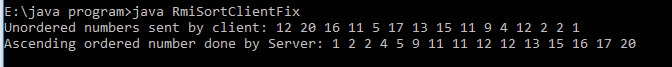
****

**Then run server main class:**

****

****

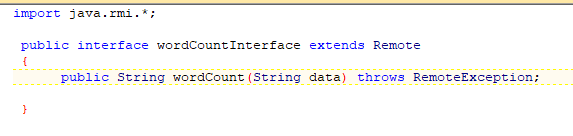
**And finally run client main class:**

****

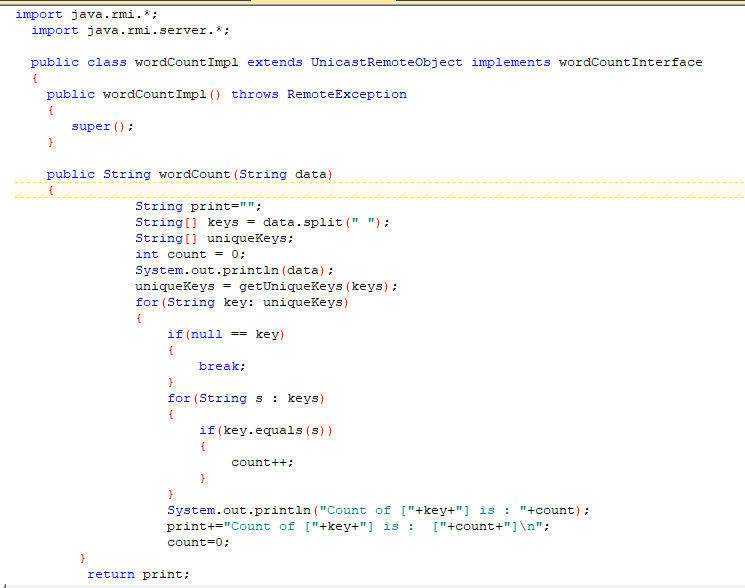
**(Optional Task)**

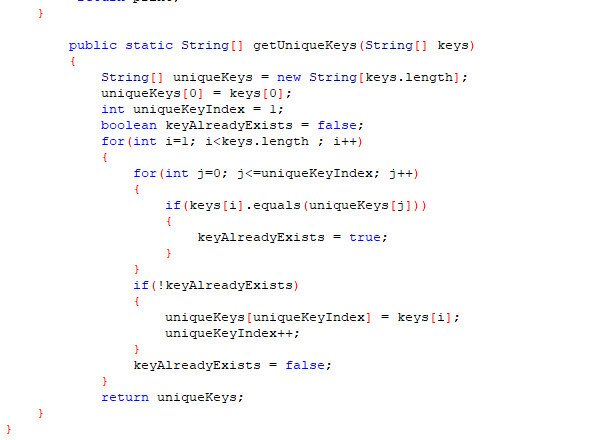
**Task3:Write an RMI program to implement the Map/Reduce concept of Hadoop on the server program. In other words the client program asks user to provide multiple sentences and send to server, server sends back the word counts.**

**1)Interface on both client and server side.**

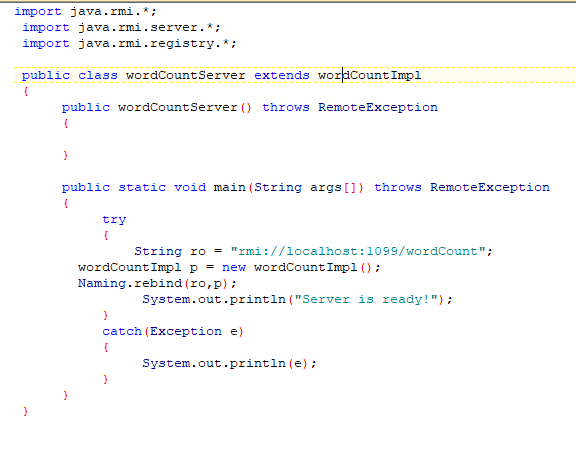
****

**2)Server Remote object class:**

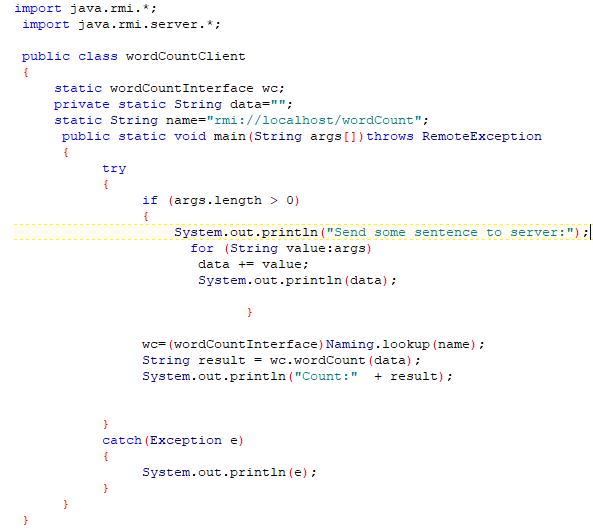
****

****

**3)Server main class:**

****

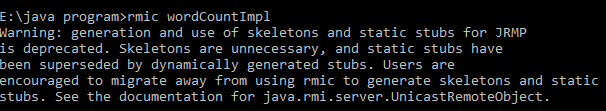
**4)Client main class:**

****

**Output:**

**First compile all the classes.**

**Then create skeleton of server remote object class:**

****

**Then start registry to register server remote object.**

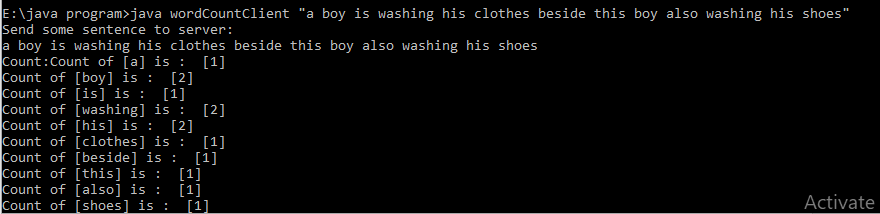
****

**Then run server main class:**

****

****

**And finally run client main class:**

****