

Week 9 - Client server application using RMI techniques

CODE: TICKET BOOKING USING RMI

TICKET BOOKING SERVICE.JAVA

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

public interface TicketBookingService extends Remote {
    int getTotalAvailableSeats() throws RemoteException;
    String bookTickets(String name, int numSeats) throws RemoteException;
}
```

TICKET BOOKING SERVICE IMPL.JAVA

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

public class TicketBookingServiceImpl extends UnicastRemoteObject
implements TicketBookingService {
    private int totalSeats = 200;

    protected TicketBookingServiceImpl() throws RemoteException {
        super();
    }

    public String bookTickets(String name, int numSeats) throws
RemoteException {
}
```

TICKET BOOKING SERVER.JAVA

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

public class TicketBookingServer {
    public static void main(String[] args) {
        try {
            TicketBookingService ticketBookingService = new
TicketBookingServiceImpl();

            System.out.println("Ticket booking server is running...");
        }
    }
}
```

```

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

```

TICKET BOOKING CLIENT .JAVA

```

import java.rmi.Naming;
import java.util.Random;
import java.util.Scanner;

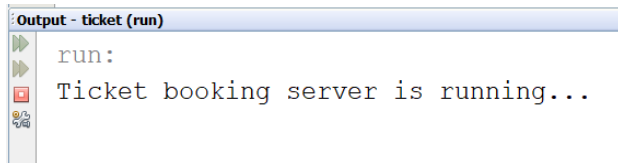
public class TicketBookingClient1 {
    public static void main(String[] args) {
        try {
            TicketBookingService ticketBookingService = (TicketBookingService)
Naming.lookup("rmi://localhost/TicketBookingService");
            Scanner scanner = new Scanner(System.in);
            System.out.println("Welcome My Theater Ticket Booking System -
Client 1");
            while (true) {
                System.out.print("Enter your name : " );

                String name = scanner.nextLine();
                if (confirm.equalsIgnoreCase("yes")) {
                    String result = ticketBookingService.bookTickets(name,
numSeats);
                    System.out.println(result);
                } else {
                    System.out.println("Booking canceled.");
                }

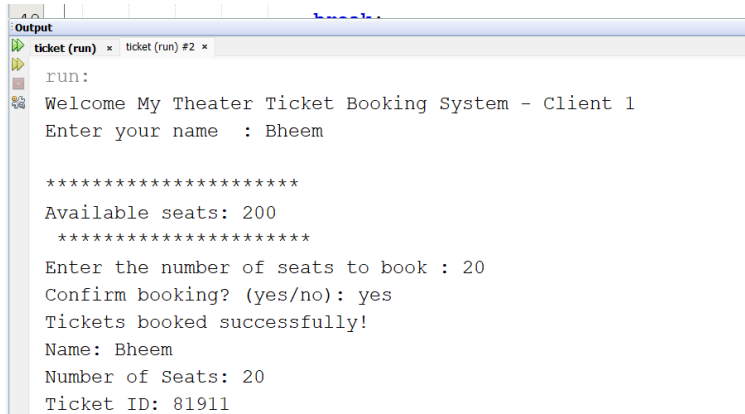
                System.out.print("Do you want to book more tickets? (yes/no): ");
                String continueBooking = scanner.nextLine();
                if (!continueBooking.equalsIgnoreCase("yes")) {
                    break;
                }
            }
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}

```

OUTPUT:

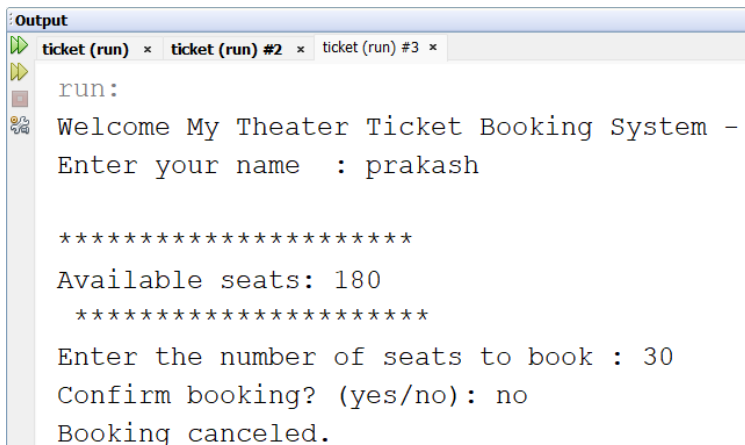


```
Output - ticket (run)
run:
Ticket booking server is running...
```



```
Output
ticket (run) x ticket (run) #2 x ticket (run) #3 x
run:
Welcome My Theater Ticket Booking System - Client 1
Enter your name : Bheem

*****
Available seats: 200
*****
Enter the number of seats to book : 20
Confirm booking? (yes/no): yes
Tickets booked successfully!
Name: Bheem
Number of Seats: 20
Ticket ID: 81911
```



```
Output
ticket (run) x ticket (run) #2 x ticket (run) #3 x
run:
Welcome My Theater Ticket Booking System -
Enter your name : prakash

*****
Available seats: 180
*****
Enter the number of seats to book : 30
Confirm booking? (yes/no): no
Booking canceled.
```

RESULT: