```
// A Java program for a Client
import java.io.*;
import java.net.*;
import java.util.*;
public class Client {
private Socket s = null;
public Client(String address, int port)
{
try{
                         // In this Code Input Getting from a user
Scanner sc = new Scanner(System.in);
s = new Socket(address, port);
System.out.println("Connected");
                        // Create two objects first is dis and dos for
                        // input and output
                        DataInputStream dis
                        = new DataInputStream(s.getInputStream());
                        DataOutputStream dos
                                 = new DataOutputStream(s.getOutputStream());
                        // Making a Loop
                        while (true) {
                                System.out.println(
```



```
"Enter the operation in the form operand operator operand");
                         System.out.println("Example 3 + 5");
                         String inp = sc.nextLine();
                        // Check the user input if user enter over
                        // then
                        // connect is stopped by server and user
                         if (inp.equals("Over"))
                         break;
                         dos.writeUTF(inp);
String ans = dis.readUTF();
                        System.out.println("Answer = " + ans);
}
}
catch (Exception e) {
System.out.println("Error in Connection");
}
public static void main(String args[])
// Connection With Server port 5000
         Client client = new Client("127.0.0.1", 5000);
}
```

}

```
// A Java program for a Server
import java.io.*;
import java.net.*;
import java.util.*;
public class Server {
        // initialize socket and input stream
private Socket socket = null;
        // constructor with port
        public Server(int port)
        {
        try{
        // Making a ServerSocket object
        // for receiving Client Request
                        ServerSocket ss = new ServerSocket(port);
        Socket s = ss.accept();
                        // dis and dos object for receiving
                        // input from client send output to client
                        DataInputStream dis
                        = new DataInputStream(s.getInputStream());
                        DataOutputStream dos
                                 = new DataOutputStream(s.getOutputStream());
```



```
while (true) {
String input = dis.readUTF();
if (input.equals("bye"))
break;
        System.out.println("Equation Received");
int result = 0;
        StringTokenizer st
        = new StringTokenizer(input);
        int oprnd1
                = Integer.parseInt(st.nextToken());
        String operation = st.nextToken();
        int oprnd2
                = Integer.parseInt(st.nextToken());
        // Calculator Operation Perform By Server
        if (operation.equals("+")) {
                 result = oprnd1 + oprnd2;
        }
        else if (operation.equals("-")) {
        result = oprnd1 - oprnd2;
        }
        else if (operation.equals("/")) {
        result = oprnd1 / oprnd2;
        }
```

```
else if (operation.equals("*")) {
                result = oprnd1 * oprnd2;
                }
                                 System.out.println("Sending the Result");
                dos.writeUTF(Integer.toString(result));
                }
                catch (Exception e) {
                System.out.println("Error");
                }
       }
        public static void main(String args[])
        {
                // Server Object and set port number 5000
                Server server = new Server(5000);
        }
}
```

