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Class: BE-CO	Batch: 01
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Aim: Client / Server using RPC.

```
Code:
Client.java
int a, b, c;
    while (true) {
       fun = receiveRead.readLine();
       if (fun != null) {
         System.out.println("Operation : " + fun);
       a = Integer.parseInt(receiveRead.readLine());
       System.out.println("Parameter 1: " + a);
       b = Integer.parseInt(receiveRead.readLine());
       if (fun.compareTo("add") == 0) {
         c = a + b;
         c = a / b;
         System.out.println("Division = " + c);
         pwrite.println("Division = " + c);
       }
       System.out.flush();
    }
Code:
Server.java
import java.io.*;
import java.net.*;
class cli {
  public static void main(String[] args) throws Exception {
     Socket sock = new Socket("127.0.0.1", 3000);
     BufferedReader keyRead = new BufferedReader(new InputStreamReader(System.in));
     OutputStream ostream = sock.getOutputStream();
     PrintWriter pwrite = new PrintWriter(ostream, true);
```

```
InputStream istream = sock.getInputStream();
  BufferedReader receiveRead = new BufferedReader(new InputStreamReader(istream));
  System.out.println("Client ready, type and press Enter key");
  String receiveMessage, sendMessage, temp;
  while (true) {
     System.out.println("\nEnter operation to perform(add,sub,mul,div)....");
    temp = keyRead.readLine();
    sendMessage = temp.toLowerCase();
     pwrite.println(sendMessage);
     System.out.println("Enter first parameter:");
     sendMessage = keyRead.readLine();
    pwrite.println(sendMessage);
     System.out.println("Enter second parameter: ");
     sendMessage = keyRead.readLine();
     pwrite.println(sendMessage);
     System.out.flush();
    if ((receiveMessage = receiveRead.readLine()) != null) {
       System.out.println(receiveMessage);
  }
}
```

## Conclusion:

We have successfully performed the experiment on client/server using RPC.