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DC Expt-2:
Program: IPCServer.java
import java.io.DataInputStream;
import java.io.DataOutputStream;
import java.net.ServerSocket;
import java.net.Socket;
public class IPCServer {
    public static void main(String args[]) {
        System.out.println("\n **** INTERPROCESS COMMUNICATION By Moin MN
(211P030)**** n");
        System.out.println("\n **** SERVER PROCESS STARTED ****\n");
        System.out.println("\n **** SERVER IS READY AND WAITING TO RECEIVE DATA
FROM CLIENT PROCESS ON PORT****" + 1200);
        try {
            ServerSocket ss = new ServerSocket(1200); //1200 is port number
           Socket clientSocket = ss.accept();
           System.out.println("\n **** Client is connected with IP address****"
+ clientSocket.getInetAddress() + "and port Number" + clientSocket.getPort());
           DataOutputStream dos = new
DataOutputStream(clientSocket.getOutputStream());
           DataInputStream dis = new
DataInputStream(clientSocket.getInputStream());
           int a = dis.readInt();
           System.out.println("\n SERVER RECEIVED");
           System.out.println("\n NUMBER 1 =====>" + a);
            int b = dis.readInt();
           System.out.println("\n NUMBER 2====>" + b);
           int c = a + b;
           dos.writeInt(c);
           System.out.println("\n SERVER PROCESS HAS EXECUTED REQUESTED PROCESS
AND SENT RESULT " + c + " TO THE CLIENT\n");
           clientSocket.close();
           System.out.println("\n SERVER PROCESS EXITING.....");
           ss.close();
        } catch (Exception e) {
           System.out.println("Exception: " + e);
    }
Program: IPClient.java
import java.io.BufferedReader;
import java.io.DataInputStream;
import java.io.DataOutputStream;
import java.io.InputStreamReader;
import java.net.Socket;
public class IPCClient {
    public static void main(String args[]) {
           Socket s = new Socket("localhost", 1200);
           DataOutputStream dos = new DataOutputStream(s.getOutputStream());
           DataInputStream dis = new DataInputStream(s.getInputStream());
           InputStreamReader isr = new InputStreamReader(System.in);
            System.out.println("\n \t******* CLIENT By Moin MN
System.out.println("\n \t******* CLIENT PROCESS
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System.out.println(
                      "\n *****PLEASE ENTER THE VALUES OF NUMBER 1 AND NUMBER 2 TO
PASS THEM TO SERVER PROCESS******** \n");
             BufferedReader br = new BufferedReader(isr);
             int a = Integer.parseInt(br.readLine());
             System.out.println("Number 1===>" + a);
             dos.writeInt(+a);
             int b = Integer.parseInt(br.readLine());
             System.out.println("Number 2====>" + b);
             dos.writeInt(+b);
             int result = dis.readInt();
             System.out.println(
                      "\n..... PROCESS HAS RECEIVED RESULT
FROM SERVER.....\n");
             System.out.println("\n THE ADDITION OF " + a + " & " + b + " = " +
result);
             s.close();
         } catch (Exception e) {
             System.out.println("Exception is " + e);
         }
    }
Output:
PS C:\Users\Moin MN\Downloads> javac IPCServer.java
PS C:\Users\Moin MN\Downloads> java IPCServer
 **** INTERPROCESS COMMUNICATION By Moin MN (211P030)****
 **** SERVER PROCESS STARTED ****
 **** SERVER IS READY AND WAITING TO RECEIVE DATA FROM CLIENT PROCESS ON PORT****1200
 **** Client is connected with IP address****/127.0.0.1and port Number49296
 SERVER RECEIVED
 NUMBER 1 ====>27
 NUMBER 2===>45
 SERVER PROCESS HAS EXECUTED REQUESTED PROCESS AND SENT RESULT 72 TO THE CLIENT
 SERVER PROCESS EXITING.....
PS C:\Users\Moin MN\Downloads>
PS C:\Users\Moin MN\Downloads> javac IPCClient.java
PS C:\Users\Moin MN\Downloads> java IPCClient
        ****** CLIENT By Moin MN (211P030)**********
        ****** CLIENT PROCESS STARTED *************
 *****PLEASE ENTER THE VALUES OF NUMBER 1 AND NUMBER 2 TO PASS THEM TO SERVER PROCESS********
27
Number 1===>27
45
Number 2====>45
       ...... CLIENT PROCESS HAS RECEIVED RESULT FROM SERVER.......
 THE ADDITION OF 27 \& 45 = 72
PS C:\Users\Moin MN\Downloads>
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