

SharedMemory.java:

```
import java.io.BufferedReader;
import java.io.IOException;
import java.io.InputStreamReader;
import java.io.PrintStream;
import java.net.ServerSocket;
import java.net.Socket;

public class SharedMemory {
    static int a = 50;
    static int count = 0;

    public static int getA(PrintStream cout) {
        count++;
        cout.println(a);
        return a;
    }

    public static void main(String[] args) throws IOException {
        ServerSocket ss = new ServerSocket(2000);
        while (true) {
            Socket sk = ss.accept();
            BufferedReader cin = new BufferedReader(new
InputStreamReader(sk.getInputStream()));
            PrintStream cout = new PrintStream(sk.getOutputStream());
            System.out.println("Client from " +
sk.getInetAddress().getHostAddress() + " Accepted");
            String s = cin.readLine();
            if (s.equalsIgnoreCase("show")) {
                getA(cout);
            } else {
                cout.println("Check syntax");
                // break;
            }
            System.out.println("Client count" + count);
        }
    }
}
```

```
PS C:\Users\Moin MN\Downloads\DC Expt 11> javac *.java
PS C:\Users\Moin MN\Downloads\DC Expt 11> java SharedMemory
Client from 127.0.0.1 Accepted
Client count1
```

SharedMemoryClient.java:

```
import java.io.BufferedReader;
import java.io.IOException;
import java.io.InputStreamReader;
import java.io.PrintStream;
import java.net.Socket;
import java.util.Scanner;

public class SharedMemoryClient {
    public static void main(String[] args) throws IOException {
        Socket sk = new Socket("Localhost", 2000);
        BufferedReader sin = new BufferedReader(new
InputStreamReader(sk.getInputStream()));
        PrintStream sout = new PrintStream(sk.getOutputStream());
        Scanner stdin = new Scanner(System.in);
        String s;
        while (true) {
            System.out.println("Type show");
            System.out.println("Client: ");
            s = stdin.nextLine();
            sout.println(s);
            s = sin.readLine();
            System.out.println("Answer" + s);
        }
    }
}
```

```
PS C:\Users\Moin MN\Downloads\DC Expt 11> java SharedMemoryClient
Type show
Client:
show
Answer50
Type show
Client:
```