

JUNAID GIRKAR
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SE COMPS A-3

OPERATING SYSTEMS

EXPERIMENT - 5

Code & Output

CODE:

Client Side Code -

```
import java.io.*;
import java.net.*;

class Client {
    public static void main(String[] args) throws Exception {
        String msg;
        Socket s2 = new Socket("localhost", 80);

        String names[] = { "JUNAID", "JUNAID_GIRKAR" };
        int i = (int) (Math.random() * (names.length));
        msg = names[i];

        PrintStream d1 = new PrintStream(s2.getOutputStream());
        d1.println(msg);

        BufferedReader d2 = new BufferedReader(new
InputStreamReader(s2.getInputStream()));
        String resp = d2.readLine();

        System.out.println("\nServer response: " + resp);
    }
}
```

Server Side Code -

```
import java.io.*;
import java.net.*;

class manageClient extends Thread {
    private Socket s;
    private String name;

    manageClient(Socket s) {
        this.s = s;
    }

    public void run() {
        try {
            BufferedReader d2 = new BufferedReader(new
InputStreamReader(s.getInputStream()));
            this.name = d2.readLine();

            System.out.println("\nClient Name: " + this.name);

            PrintStream d1 = new PrintStream(s.getOutputStream());
            d1.println("You are connected " + this.name);
        } catch (Exception e) {
            System.out.println("\n [!] Thread of client: " + this.name +
" was interrupted.");
        }
    }
}

class Server {
    public static void main(String[] args) throws Exception {
        System.out.println("\nStarting Server...\n");
        ServerSocket socket = new ServerSocket(80);
        try {
            while (true) {
                Socket s1 = socket.accept();

                System.out.println("\nClient connected");

                Thread T1 = new manageClient(s1);
                T1.start();
            }
        } catch (Exception e) {
            System.out.println(e);
            socket.close();
        }
    }
}
```

```
}  
}  
}
```

OUTPUT:

Server Output

```
PS C:\Users\junai\OneDrive - Shri Vile Parle K  
TICALS\OS\Practical-3 10-03-2021> java Server  
Starting Server...  
Client connected  
Client Name: JUNAID
```

Client Output

```
PS C:\Users\junai\OneDrive - Shri Vile Parle K  
TICALS\OS\Practical-3 10-03-2021> java Client  
Server response: You are connected JUNAID
```