

Exercise – 5

Implementation of HTTP Server

Develop a socket program to implement the functionality of HTTP Server. Also implement the function of HTTP Request method GET, HEAD and OPTIONS. A sample GET request and Server response is given below.

```
[staff@sel-21 bin]$ telnet localhost 8080
Trying ::1...
Connected to localhost (::1).
Escape character is '^'.
GET /index.html HTTP/1.0
```

```
HTTP/1.1 404 Not Found
Server: Apache-Coyote/1.1
Content-Type: text/html;charset=utf-8
Content-Language: en
Content-Length: 1012
Date: Wed, 05 Aug 2015 08:23:10 GMT
Connection: close
```

```
<!DOCTYPE html><html><head><title>Apache Tomcat/8.0.9 - Error report</title><style type="text/css">H1 {font-family:Tahoma,Arial,sans-serif;color:white;background-color:#525D76;font-size:22px;} H2 {font-family:Tahoma,Arial,sans-serif;color:white;background-color:#525D76;font-size:16px;} H3 {font-family:Tahoma,Arial,sans-serif;color:white;background-color:#525D76;font-size:14px;} BODY {font-family:Tahoma,Arial,sans-serif;color:black;background-color:white;} B {font-family:Tahoma,Arial,sans-serif;color:black;background-color:#525D76;} P {font-family:Tahoma,Arial,sans-serif;background:white;color:black;font-size:12px;} A {color : black;} A.name {color : black; font-size: 1px; background-color: #525D76; border: none;}</style> </head><body><h1>HTTP Status 404 - /index.html</h1><div class="line"></div><p><b>type</b> Status<br><b>message</b> <u>/index.html</u></p><p><b>description</b> <u>The requested resource is not available.</u></p><hr class="line"><h3>Apache Tomcat/8.0.9</h3></body></html><Connection closed by foreign host.
[staff@sel-21 bin]$
```