CSE3011 NETWORK PROGRAMMING LAB EXPERIMENT 11

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REGISTRATION NUMBER – 19BCN7114

FACULTY - PROF. MUNEESWARI

Experiment Description: Reading and writing from HTTP Server

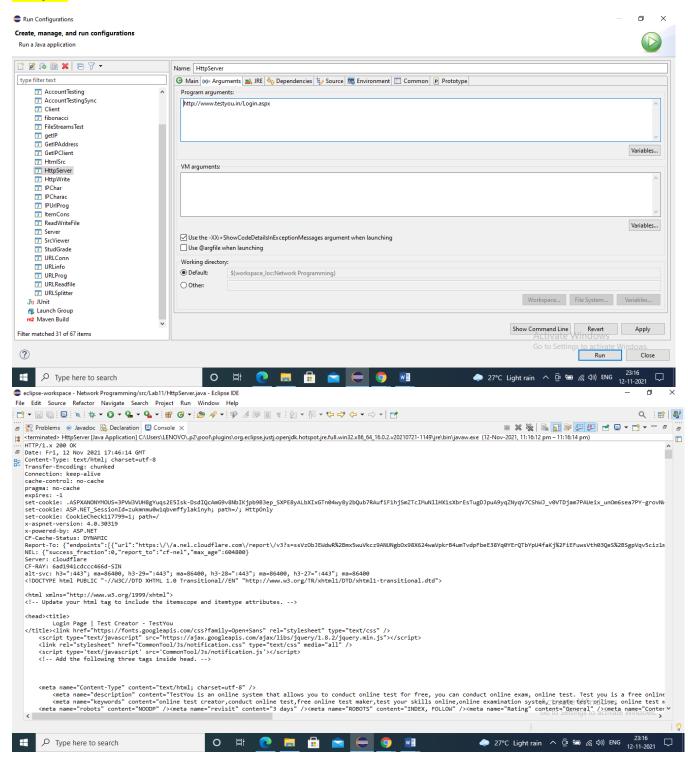
Reading from Server

HttpServer.java

```
package Lab11;
import java.net.*;
import java.io.*;
public class HttpServer{
    public static void main (String[] args) {
        for (int i = 0; i < args.length; i++)</pre>
        {
         try
           URL u = new URL(args[i]);
           HttpURLConnection uc = (HttpURLConnection)
u.openConnection( );
           int code = uc.getResponseCode( );
           String response = uc.getResponseMessage( );
           System.out.println("HTTP/1.x" + code + "" +
response);
           for (int j = 1; ; j++)
             String header = uc.getHeaderField(j);
             String key = uc.getHeaderFieldKey(j);
             if (header == null | key == null)
             {
               break;
             }
```

```
System.out.println(uc.getHeaderFieldKey(j) + ":
" + header);
           InputStream in = new
BufferedInputStream(uc.getInputStream());
           Reader r = new InputStreamReader(in);
           int c;
           while ((c = r.read( )) != -1)
              System.out.print((char) c);
           System.out.println();
      }
      catch (MalformedURLException ex)
             System.err.println(args[0] + " is not a
parseable URL");
      catch (IOException ex)
         {
             System.err.println(ex);
         }
    }
 }
}
```

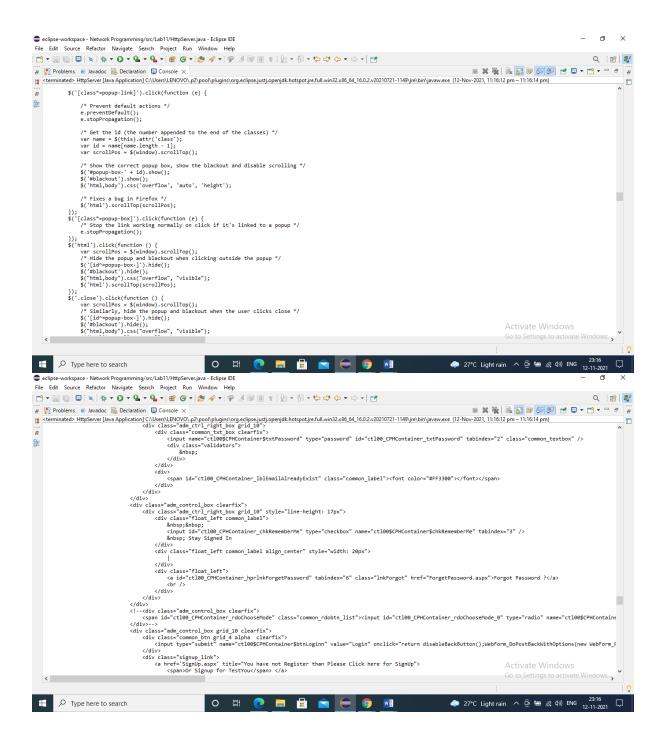
Output

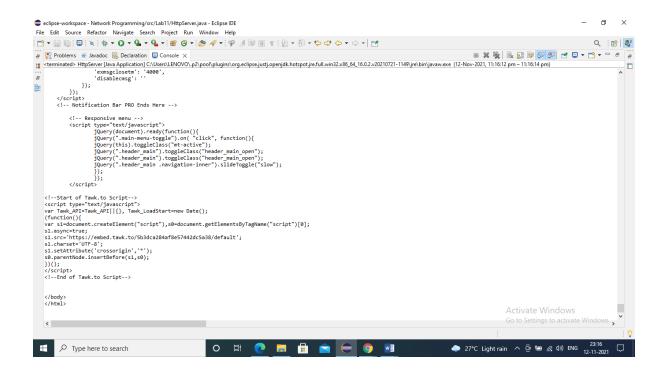


```
eclipse-workspace - Network Programming/src/Lab11/HttpServer.java - Eclipse IDE
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var textp;
            $('.txtplaceholder').bind("focusin", function () {
                textp = $(this).attr('rel');
                if ($(this).val() == textp) {
    $(this).val("");
            });
$('.txtplaceholder').bind("focusout", function () {
                if ($(this).val() == "") {
    $(this).val(textp);
           });
         });
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sterminated» HttpServer [Java Application] C\Users\LENOVO\.p2\poo\polyplugin\org.eclipse.justj.openjdk.hotspot.jrefull.win32.x86.64_16.0.2.v20210721-1149/jre\bin\javaw.exe (12-Nov-2021, 11:1612 pm - 11:1614 pm)
            float: left;
margin: 2px -3px 0px 2px;
         .common_btn .normal_btn {
    line-height: 0;
}
          output label
            padding: 0px;
margin-bottom: 20px;
      }
</style>
<script type="text/javascript" language="javascript">
         function disableBackButton() {
            window.history.forward();
        return true;
}
  </script>
<link rel="canonical" href="http://www.testyou.in/Login.aspx" /></head>
  clink rel="canonical" href="http://www.testyou.in/Login.aspx" /></head>

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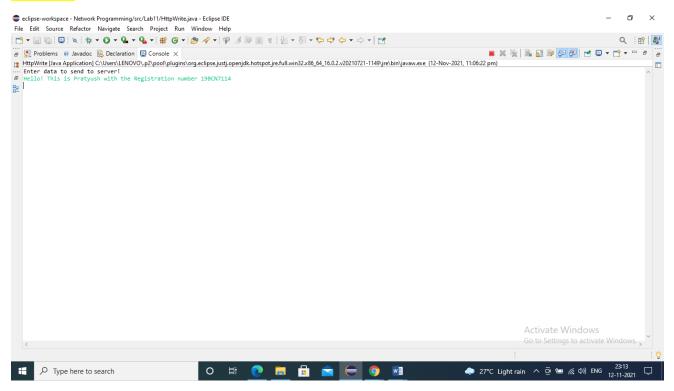
Writing to Server

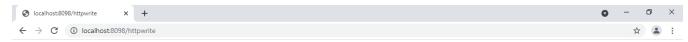
```
HttpWrite.java
```

```
package Lab11;
import java.io.IOException;
import java.io.OutputStream;
import java.net.InetSocketAddress;
import java.util.*;
import com.sun.net.httpserver.HttpExchange;
import com.sun.net.httpserver.HttpHandler;
import com.sun.net.httpserver.HttpServer;
public class HttpWrite {
static Scanner sin=new Scanner(System.in);
    public static void main(String[] args) throws
Exception {
        HttpServer server = HttpServer.create(new
InetSocketAddress(8098), 0);
        server.createContext("/httpwrite", new
MyHandler());
        server.setExecutor(null);
        server.start();
```

```
static class MyHandler implements HttpHandler {
    public void handle(HttpExchange t) throws
IOException {
        System.out.println("Enter data to send to
server!");
    String response = sin.nextLine();
        t.sendResponseHeaders(200, response.length());
        OutputStream os = t.getResponseBody();
        os.write(response.getBytes());
        os.close();
    }
}
```

Output





Hello! This is Pratyush with the Registration number 19BCN7114

Activate Windows Go to Settings to activate Windows.

