

Networks lab Exercise 2

Aim:

Write a HTTP web client program to download a web page using TCP sockets.

Algorithm:

- 1.Create URL Object and pass URL as string to constructor .
- 2.Use .openStream() and use .readAllBytes() and to the byte array.
- 3.Using FileOutputStream create another object and write the byte array.
- 4.Close the stream.
- 5.Catch all Exceptions If any may occur.

Code:

```
package networkslab;

import java.net.URL;
import java.io.*;

public class downloadpage {
    public static void main(String []args) {
        try {
            URL page=new URL("https://www.snuchennai.edu.in/");
            System.out.println("Port : "+page.getDefaultPort());
            System.out.println("Host : " +page.getHost());
            System.out.println("Protocol: "+page.getProtocol());
            byte []arr=page.openStream().readAllBytes();
            String out=new String(arr);
            //System.out.println(out);
            FileOutputStream out1=new FileOutputStream("webdownload.html");
            out1.write(arr);
            out1.close();
        }catch(Exception e) {
            e.printStackTrace();
        }
    }
}
```

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Output:

```
var ekkit_config = {"ajaxurl":"https://www.snuchennai.edu.in/wp-admin/admin-ajax.php","nonce":"964133699c"};
</script>
<script src="https://www.snuchennai.edu.in/wp-content/plugins/elements-kit-lite/widgets/init/assets/js/elementor.js?ver=2.7.0" id="elements-kit-lite"></script>
<script src="https://www.snuchennai.edu.in/wp-content/plugins/elementor/assets/js/preloaded-modules.min.js?ver=3.7.7" id="preloaded-modules"></script>
<script id="wp-util-js-extra">
var _wpUtilSettings = {"ajax":{"url":"https://www.snuchennai.edu.in/wp-admin/admin-ajax.php"}};
</script>
<script src="https://www.snuchennai.edu.in/wp-includes/js/wp-util.min.js?ver=5.8.4" id="wp-util-js"></script>
<script id="wpforms-elementor-js-extra">
var wpformsElementorVars = {"captcha_provider":"recaptcha","captcha_type":"v2"};
</script>
<script src="https://www.snuchennai.edu.in/wp-content/plugins/wpforms-lite/assets/js/integrations/elementor/frontend.min.js?ver=1.7.7.2" id="wpforms-elementor-js"></script>
<script>
/(trident|msie)/i.test(navigator.userAgent)&&document.getElementById(window.addEventListeners&&window.addEventListeners)
</script>
</body>
</html>
```

Result:

Thus Using the script in java the required webpage was downloaded.