

NETWORK PROGRAMMING LAB

LAB 5

NAME : SREENIDHI GANACHARI

REG NO : 19BCE7230

- Q) 1. Exhibit using Java to read the data from the HTTP server.
2. Illustrate using Java to write the data to the HTTP server.

CODE –

```
import com.sun.net.httpserver.HttpExchange;
import com.sun.net.httpserver.HttpHandler;
import com.sun.net.httpserver.HttpServer;

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

public class ReadHTTP {
    public static void main(String[] args) throws Exception {
        String s = "";
        URL url = new URL("https://vitap.ac.in/");
        URLConnection uc = url.openConnection();
        InputStream raw = uc.getInputStream();
        InputStream buffer = new BufferedInputStream(raw);
        Reader r = new InputStreamReader(buffer);
        int c;
        while ((c = r.read()) != -1) {
            s += (char)c;
        }
        System.out.println("Reading Data from : http://info.cern.ch");
    }
}
```

```

        WriteHTTP a = new WriteHTTP();

        a.launchServer(s);

    }
}

class WriteHTTP {

    public void launchServer(String content) throws Exception {

        HttpServer server = HttpServer.create(new InetSocketAddress(8000), 0);

        server.createContext("/home", new MyHandler(content));

        server.setExecutor(null); // creates a default executor

        server.start();

        System.out.println("http://localhost:8000/home");

    }

    static class MyHandler implements HttpHandler {

        String content="";

        MyHandler(String s){

            content=s;

        }

        @Override

        public void handle(HttpExchange t) throws IOException {

            t.sendResponseHeaders(200, content.length());

            OutputStream os = t.getResponseBody();

            os.write(content.getBytes());

            os.close();

        }

    }

}

```

OUTPUT –

```
Command Prompt - java ReadHTTP
Microsoft Windows [Version 10.0.19042.1348]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Sreenidhi>cd Desktop

C:\Users\Sreenidhi\Desktop>javac ReadHTTP.java

C:\Users\Sreenidhi\Desktop>java ReadHTTP
Reading Data from : http://info.cern.ch
http://localhost:8000/home
```