

# UCS1601---Internet Programming Assignment – 3

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**CSE-C**

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## **Aim:**

- To install JDK, Tomcat server and deploy a servlet program.
- To write the servlet program to read username, email-id and transmit it to the server, where server displays a table for username and email.

## **Code:**

web.xml File

```
<web-app>
  <servlet>
    <servlet-name>HelloForm</servlet-name>
    <servlet-class>HelloForm</servlet-class>
  </servlet>

  <servlet-mapping>
    <servlet-name>HelloForm</servlet-name>
    <url-pattern>/HelloForm</url-pattern>
  </servlet-mapping>
</web-app>
```

## index.html File

```
<!DOCTYPE html>
<html lang="en">

<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Backend Programming</title>
  <!-- Stylesheet -->
  <link href="style.css" rel='stylesheet' type='text/css' />
</head>

<body>
  <div align="center">
    <form action = "HelloForm" method = "GET">
      User Name: <input type = "text" name = "name">
      <br />
      Email ID: <input type = "text" name = "email" />
      <br><br>
      <input type = "submit" id = "button" value = "Submit" />
    </form>
  </div>
</body>

</html>
```

## HelloForm.java FILE

```
import java.io.*;
import jakarta.servlet.*;
import jakarta.servlet.http.*;

public class HelloForm extends HttpServlet {

    public void doGet(HttpServletRequest request, HttpServletResponse response
    )
        throws ServletException, IOException {

        // Set response content type
        response.setContentType("text/html");

        PrintWriter out = response.getWriter();
        String title = "Using GET Method to Read Form Data";
        String welcome = "Welcome "+request.getParameter("name") +"!";
```



## Outputs:

User Name:

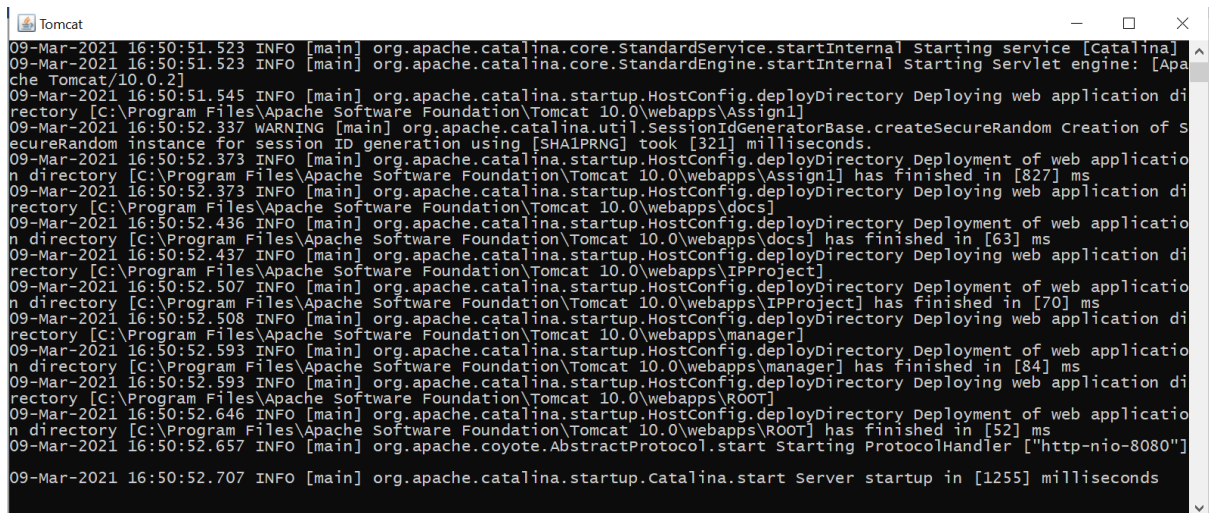
Email ID:

**Using GET Method to Read Form Data**

**Welcome Swetha Saseendran!**

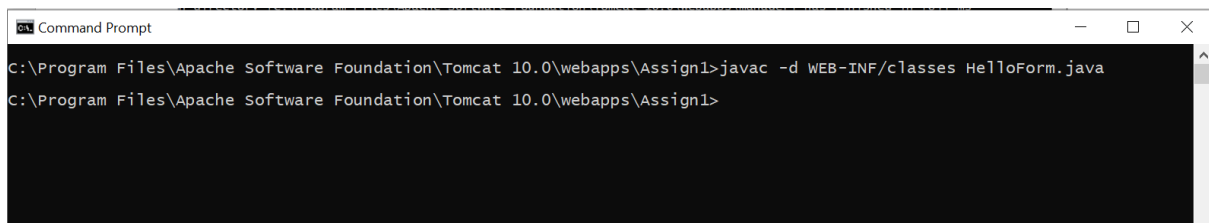
Name::	Swetha Saseendran
Email ID::	swethasaseendran4@gmail.com

## Tomcat Server:

A screenshot of a Tomcat server window showing the startup process. The window title is 'Tomcat'. The log text shows the following sequence of events: 1. Starting service [Catalina] at 16:50:51.523. 2. Starting Servlet engine: [Apache Tomcat/10.0.2] at 16:50:51.523. 3. Deploying web application directory [C:\Program Files\Apache Software Foundation\Tomcat 10.0\webapps\Assign1] at 16:50:51.545. 4. WARNING: org.apache.catalina.util.SessionIdGeneratorBase.createSecureRandom() took 321 milliseconds at 16:50:52.337. 5. Deployment of web application directory [C:\Program Files\Apache Software Foundation\Tomcat 10.0\webapps\Assign1] finished in 827 ms at 16:50:52.373. 6. Deploying web application directory [C:\Program Files\Apache Software Foundation\Tomcat 10.0\webapps\docs] at 16:50:52.373. 7. Deployment of web application directory [C:\Program Files\Apache Software Foundation\Tomcat 10.0\webapps\docs] finished in 63 ms at 16:50:52.436. 8. Deploying web application directory [C:\Program Files\Apache Software Foundation\Tomcat 10.0\webapps\IPProject] at 16:50:52.437. 9. Deployment of web application directory [C:\Program Files\Apache Software Foundation\Tomcat 10.0\webapps\IPProject] finished in 70 ms at 16:50:52.507. 10. Deploying web application directory [C:\Program Files\Apache Software Foundation\Tomcat 10.0\webapps\manager] at 16:50:52.508. 11. Deployment of web application directory [C:\Program Files\Apache Software Foundation\Tomcat 10.0\webapps\manager] finished in 84 ms at 16:50:52.593. 12. Deploying web application directory [C:\Program Files\Apache Software Foundation\Tomcat 10.0\webapps\ROOT] at 16:50:52.593. 13. Deployment of web application directory [C:\Program Files\Apache Software Foundation\Tomcat 10.0\webapps\ROOT] finished in 52 ms at 16:50:52.646. 14. Starting ProtocolHandler ["http-nio-8080"] at 16:50:52.657. 15. Server startup in 1255 milliseconds at 16:50:52.707.

```
09-Mar-2021 16:50:51.523 INFO [main] org.apache.catalina.core.StandardService.startInternal Starting service [Catalina]
09-Mar-2021 16:50:51.523 INFO [main] org.apache.catalina.core.StandardEngine.startInternal Starting Servlet engine: [Apache Tomcat/10.0.2]
09-Mar-2021 16:50:51.545 INFO [main] org.apache.catalina.startup.HostConfig.deployDirectory Deploying web application directory [C:\Program Files\Apache Software Foundation\Tomcat 10.0\webapps\Assign1]
09-Mar-2021 16:50:52.337 WARNING [main] org.apache.catalina.util.SessionIdGeneratorBase.createSecureRandom() Creation of SecureRandom instance for session ID generation using [SHA1PRNG] took [321] milliseconds.
09-Mar-2021 16:50:52.373 INFO [main] org.apache.catalina.startup.HostConfig.deployDirectory Deployment of web application directory [C:\Program Files\Apache Software Foundation\Tomcat 10.0\webapps\Assign1] has finished in [827] ms
09-Mar-2021 16:50:52.373 INFO [main] org.apache.catalina.startup.HostConfig.deployDirectory Deploying web application directory [C:\Program Files\Apache Software Foundation\Tomcat 10.0\webapps\docs]
09-Mar-2021 16:50:52.436 INFO [main] org.apache.catalina.startup.HostConfig.deployDirectory Deployment of web application directory [C:\Program Files\Apache Software Foundation\Tomcat 10.0\webapps\docs] has finished in [63] ms
09-Mar-2021 16:50:52.437 INFO [main] org.apache.catalina.startup.HostConfig.deployDirectory Deploying web application directory [C:\Program Files\Apache Software Foundation\Tomcat 10.0\webapps\IPProject]
09-Mar-2021 16:50:52.507 INFO [main] org.apache.catalina.startup.HostConfig.deployDirectory Deployment of web application directory [C:\Program Files\Apache Software Foundation\Tomcat 10.0\webapps\IPProject] has finished in [70] ms
09-Mar-2021 16:50:52.508 INFO [main] org.apache.catalina.startup.HostConfig.deployDirectory Deploying web application directory [C:\Program Files\Apache Software Foundation\Tomcat 10.0\webapps\manager]
09-Mar-2021 16:50:52.593 INFO [main] org.apache.catalina.startup.HostConfig.deployDirectory Deployment of web application directory [C:\Program Files\Apache Software Foundation\Tomcat 10.0\webapps\manager] has finished in [84] ms
09-Mar-2021 16:50:52.593 INFO [main] org.apache.catalina.startup.HostConfig.deployDirectory Deploying web application directory [C:\Program Files\Apache Software Foundation\Tomcat 10.0\webapps\ROOT]
09-Mar-2021 16:50:52.646 INFO [main] org.apache.catalina.startup.HostConfig.deployDirectory Deployment of web application directory [C:\Program Files\Apache Software Foundation\Tomcat 10.0\webapps\ROOT] has finished in [52] ms
09-Mar-2021 16:50:52.657 INFO [main] org.apache.coyote.AbstractProtocol.start Starting ProtocolHandler ["http-nio-8080"]
09-Mar-2021 16:50:52.707 INFO [main] org.apache.catalina.startup.Catalina.start Server startup in [1255] milliseconds
```

## Compilation of Java Code:

A screenshot of a Windows Command Prompt window. The window title is 'Command Prompt'. The command entered is 'javac -d WEB-INF/classes HelloForm.java'. The current directory is 'C:\Program Files\Apache Software Foundation\Tomcat 10.0\webapps\Assign1'.

```
C:\Program Files\Apache Software Foundation\Tomcat 10.0\webapps\Assign1>javac -d WEB-INF/classes HelloForm.java
C:\Program Files\Apache Software Foundation\Tomcat 10.0\webapps\Assign1>
```