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Practical No 9

Aim:- Write and test a program in java script to calculate GCD of 2 numbers.

I recommend using Firefox version 57.0 as it is very much compatible with selenium server.

You can download all the jar files related to this project in given link.

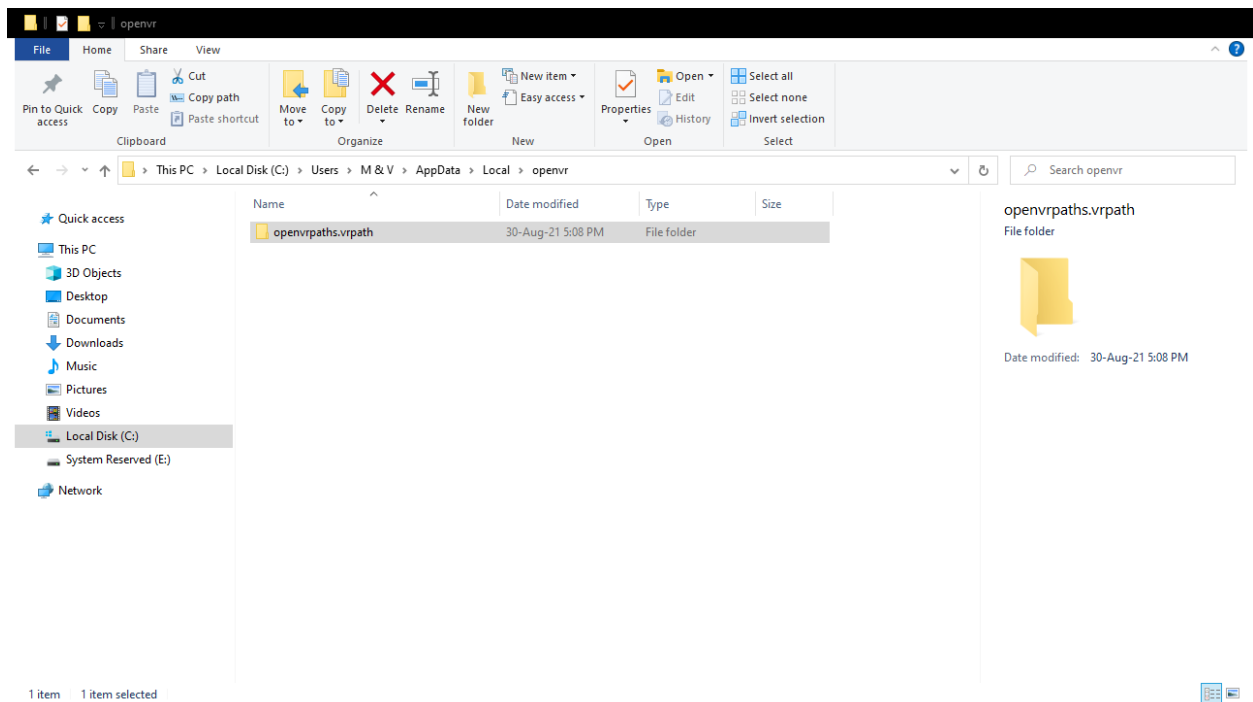
After that create an empty folder (openvr) in

C:\Users\your_pc_name\AppData\Local

And again create (openvrpaths.vrpath) in openvr

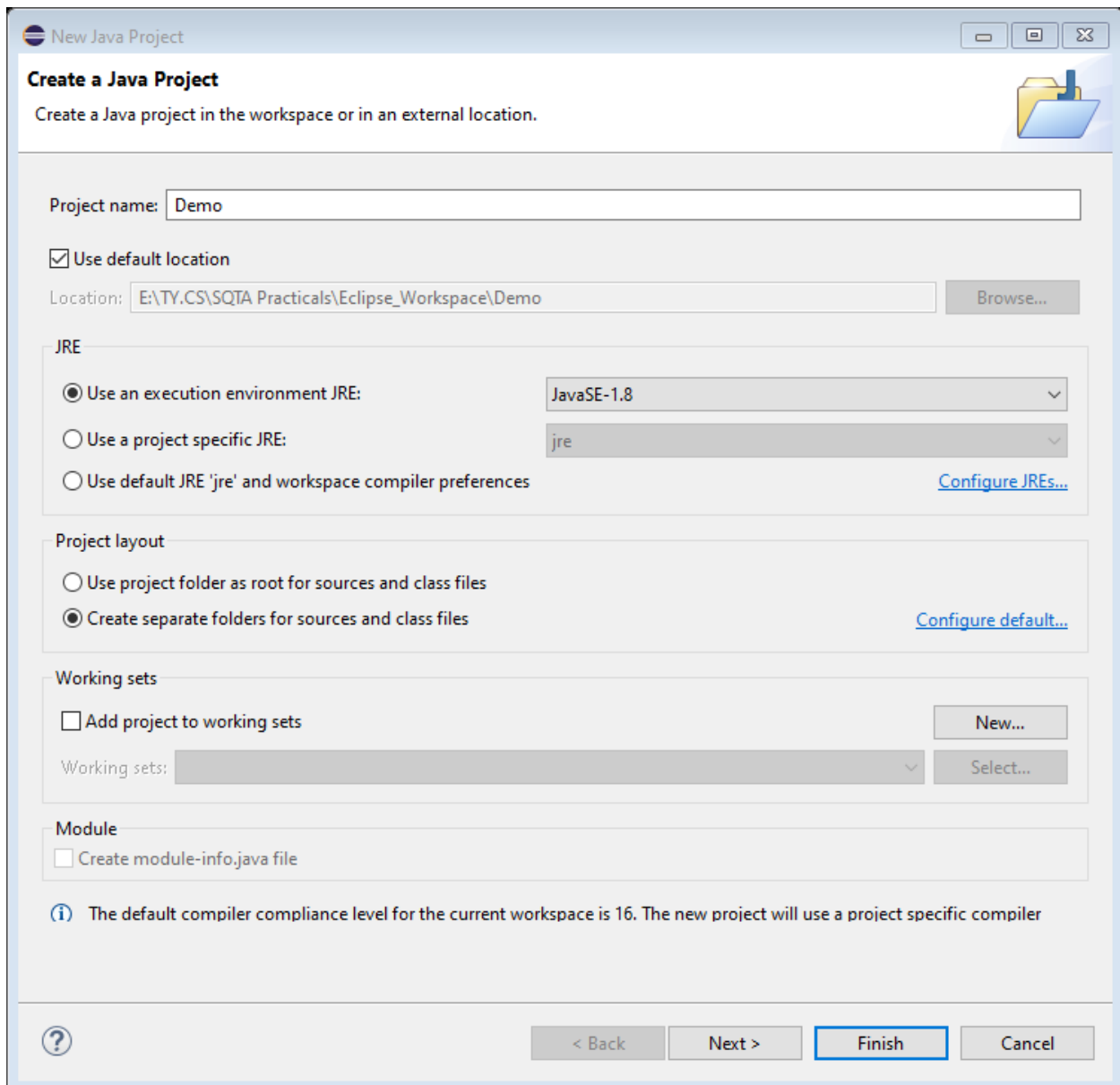
E.g:- C:\Users\M & V\AppData\Local\openvr\ openvrpaths.vrpath

It will look like this:-



Go to eclipse and follow the below steps:-

Note:- select the correct environment JRE



The screenshot shows the 'New Java Project' dialog box in the Eclipse IDE. The title bar reads 'New Java Project'. The main heading is 'Create a Java Project', followed by the instruction 'Create a Java project in the workspace or in an external location.'.

The 'Project name' field contains the text 'Demo'.

The 'Use default location' checkbox is checked. The 'Location' field shows the path 'E:\TY.CS\SQTA Practicals\Eclipse_Workspace\Demo', with a 'Browse...' button to its right.

The 'JRE' section has three radio button options: 'Use an execution environment JRE:' (selected), 'Use a project specific JRE:', and 'Use default JRE 'jre' and workspace compiler preferences'. The selected option has a dropdown menu showing 'JavaSE-1.8'. The other two options have dropdown menus showing 'jre'. A link 'Configure JREs...' is visible to the right of the third option.

The 'Project layout' section has two radio button options: 'Use project folder as root for sources and class files' and 'Create separate folders for sources and class files' (selected). A link 'Configure default...' is visible to the right of the second option.

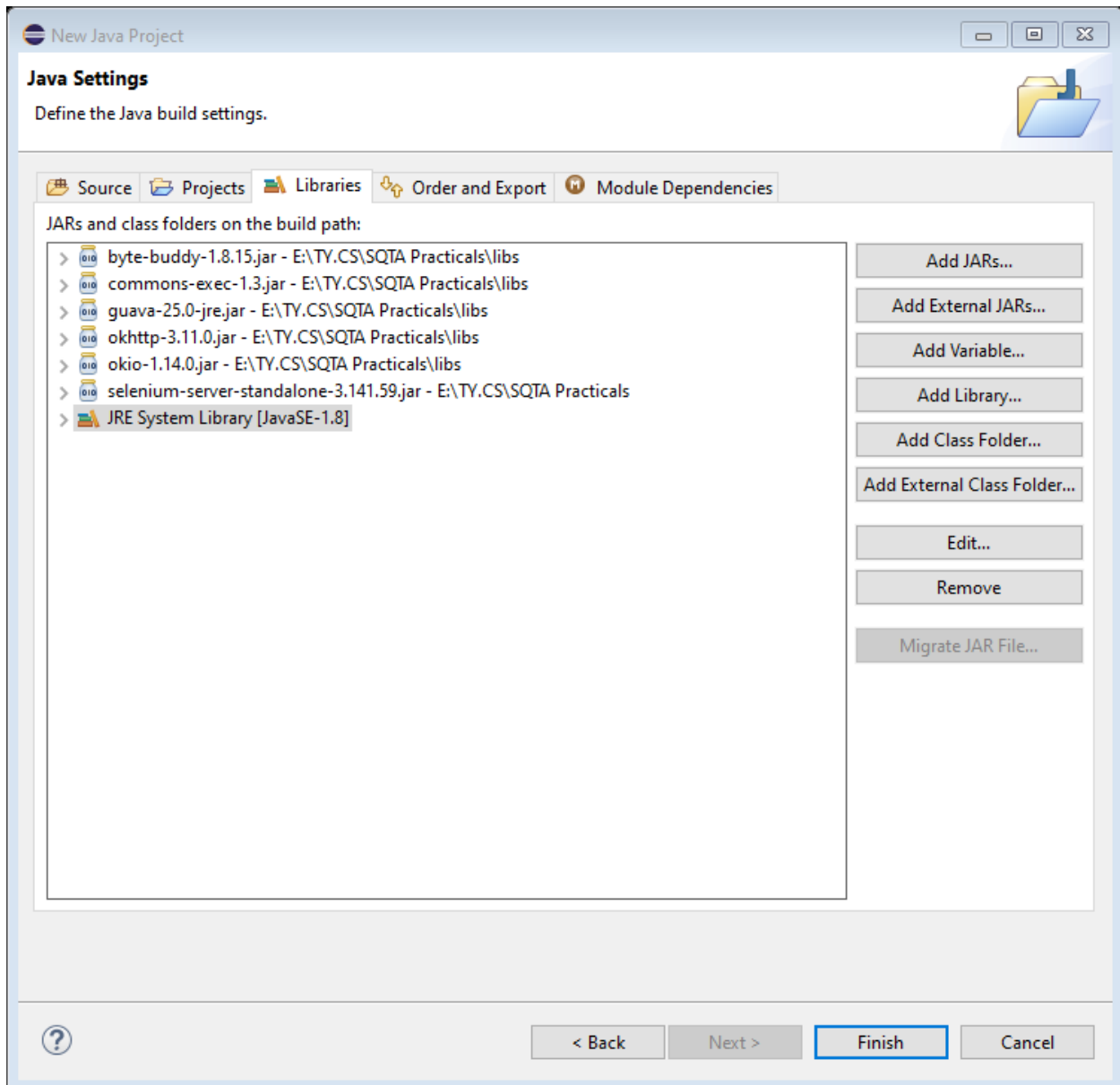
The 'Working sets' section has a checkbox 'Add project to working sets' which is unchecked. To its right is a 'New...' button. Below this, the 'Working sets:' label is followed by a dropdown menu and a 'Select...' button.

The 'Module' section has a checkbox 'Create module-info.java file' which is unchecked.

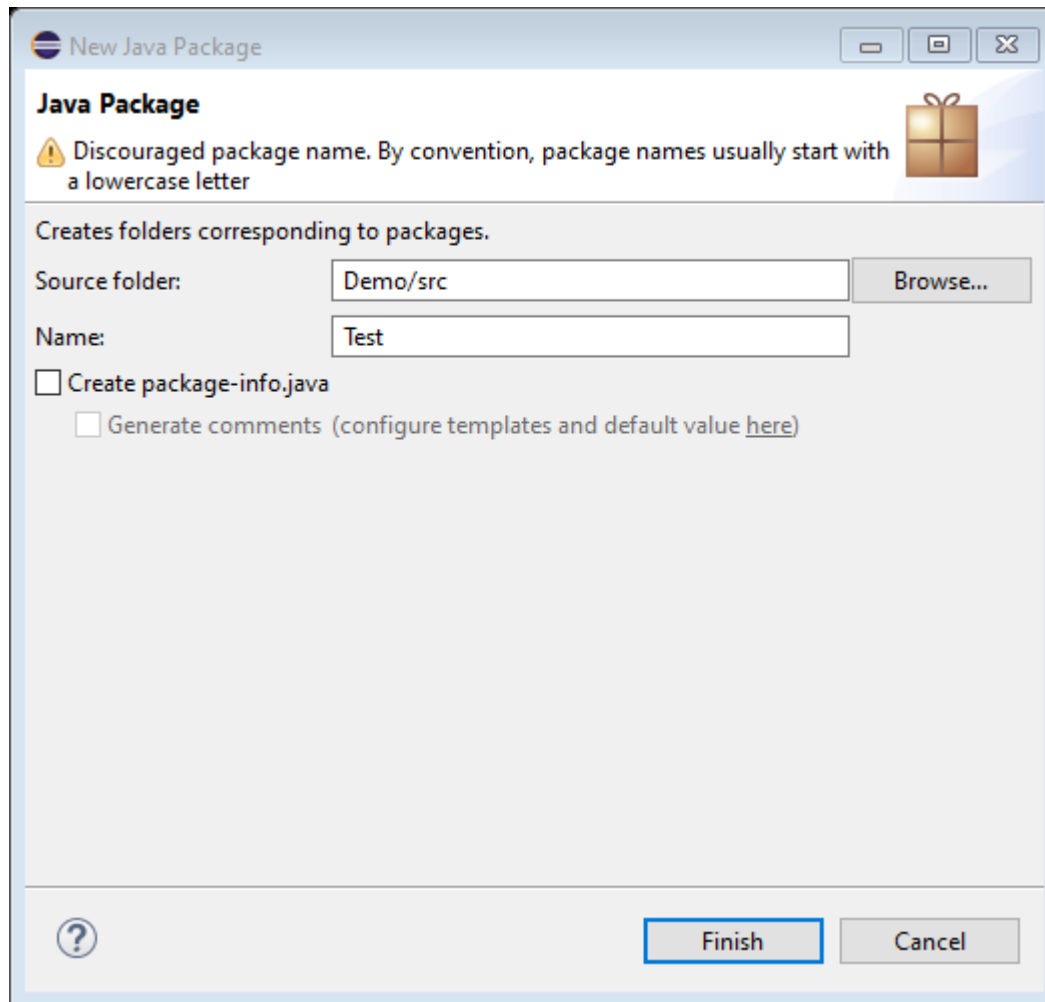
At the bottom, an information icon (i) is followed by the text: 'The default compiler compliance level for the current workspace is 16. The new project will use a project specific compiler'.

The bottom of the dialog features a row of buttons: '< Back', 'Next >', 'Finish' (highlighted with a blue border), and 'Cancel'. A help icon (?) is located on the far left of this row.

Click on Add External JARs and add the jar files



Create a new Package



The image shows a 'New Java Package' dialog box. At the top, the title bar says 'New Java Package'. Below the title bar, there's a section titled 'Java Package' with a warning icon and a gift icon. The warning text says: 'Discouraged package name. By convention, package names usually start with a lowercase letter'. Below this, it says 'Creates folders corresponding to packages.' There are two input fields: 'Source folder:' with the value 'Demo/src' and a 'Browse...' button, and 'Name:' with the value 'Test'. There are two checkboxes: 'Create package-info.java' (unchecked) and 'Generate comments (configure templates and default value [here](#))' (unchecked). At the bottom, there is a question mark icon, a 'Finish' button, and a 'Cancel' button.

New Java Package

Java Package

⚠ Discouraged package name. By convention, package names usually start with a lowercase letter

Creates folders corresponding to packages.

Source folder: Demo/src [Browse...](#)

Name: Test

☐ Create package-info.java

☐ Generate comments (configure templates and default value [here](#))

ⓘ [Finish](#) [Cancel](#)

Create a new java class and name it test1 or whatever you want

New Java Class

This package name is discouraged. By convention, package names usually start with a lowercase letter

Source folder:

Package:

☐ Enclosing type:

Name:

Modifiers: ☒ public ☐ package ☐ private ☐ protected
☐ abstract ☐ final ☐ static

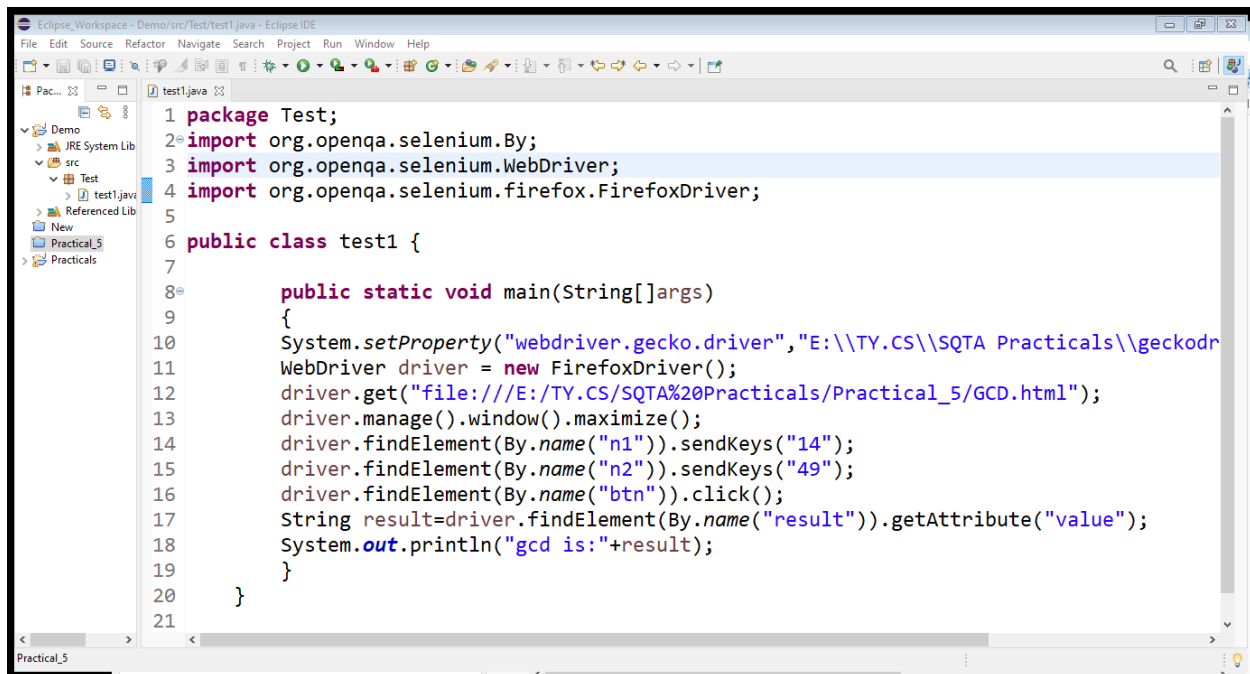
Superclass:

Interfaces:

Which method stubs would you like to create?

☐ public static void main(String[] args)
☐ Constructors from superclass
☒ Inherited abstract methods

Do you want to add comments? (Configure templates and default value [here](#))
☐ Generate comments



Copy paste the below code:-

```

package Test;
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.firefox.FirefoxDriver;
public class test1 {
    public static void main(String[] args)
    {
        System.setProperty("webdriver.gecko.driver", "E:\\TY.CS\\SQTA
Practicals\\geckodriver\\geckodriver.exe");
        WebDriver driver = new FirefoxDriver();
        driver.get("file:///E:/TY.CS/SQTA%20Practicals/Practical_5/GCD.html");
        driver.manage().window().maximize();
        driver.findElement(By.name("n1")).sendKeys("14");
        driver.findElement(By.name("n2")).sendKeys("49");
        driver.findElement(By.name("btn")).click();
        String result=driver.findElement(By.name("result")).getAttribute("value");
        System.out.println("gcd is:"+result);
    }
}

```

Note:- give your driver and webpage path correctly and the steps for webpage path is given below.

Create an html file name GCD.html and save in your folder

```
<html>

<head>

<script type="text/javascript">

function gcd()

{

var x,y;

x=parseInt(document.myform.n1.value);

y=parseInt(document.myform.n2.value);

while(x!=y)

{ if(x>y)

x=x-y;

else

y=y-x;

}

document.myform.result.value=x;

}

</script>

</head>

<body>

<h1 align="center"> Program to calculate gcd of two numbers </h1>

<hr color="red">

<center>

Enter two numbers :

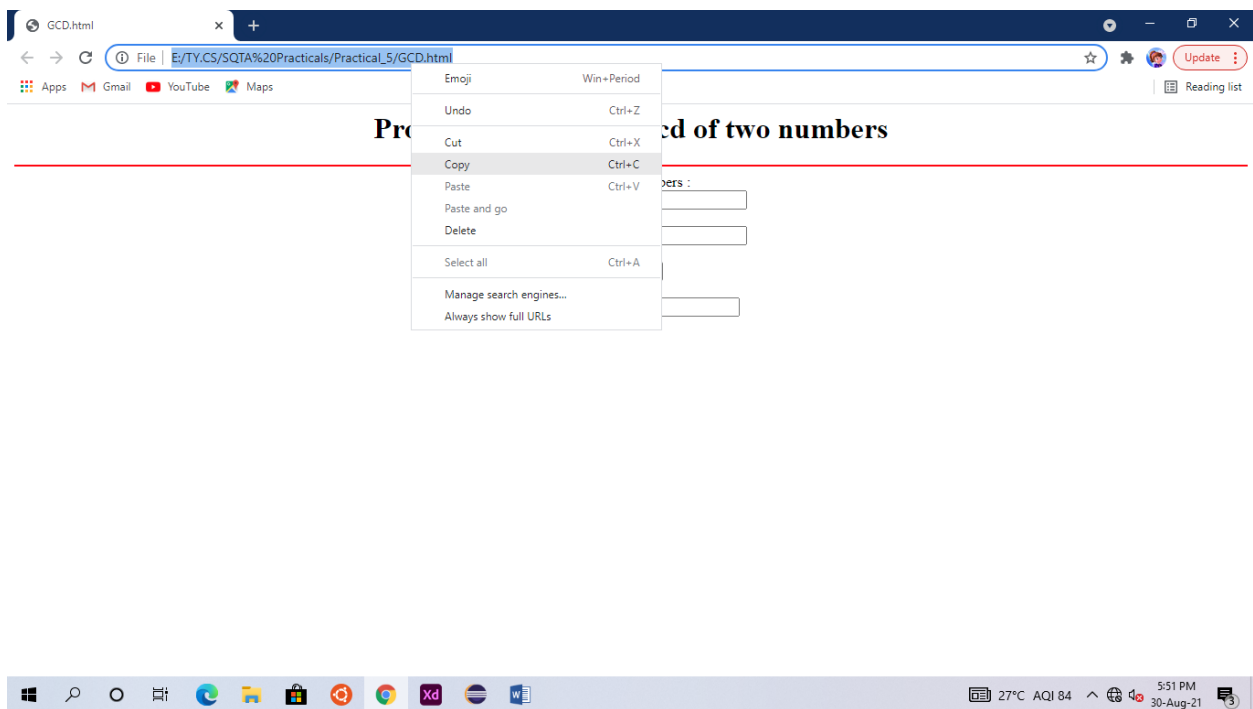
<form name="myform">

Number 1 : <input type="text" name="n1" value=""> <br> <br>

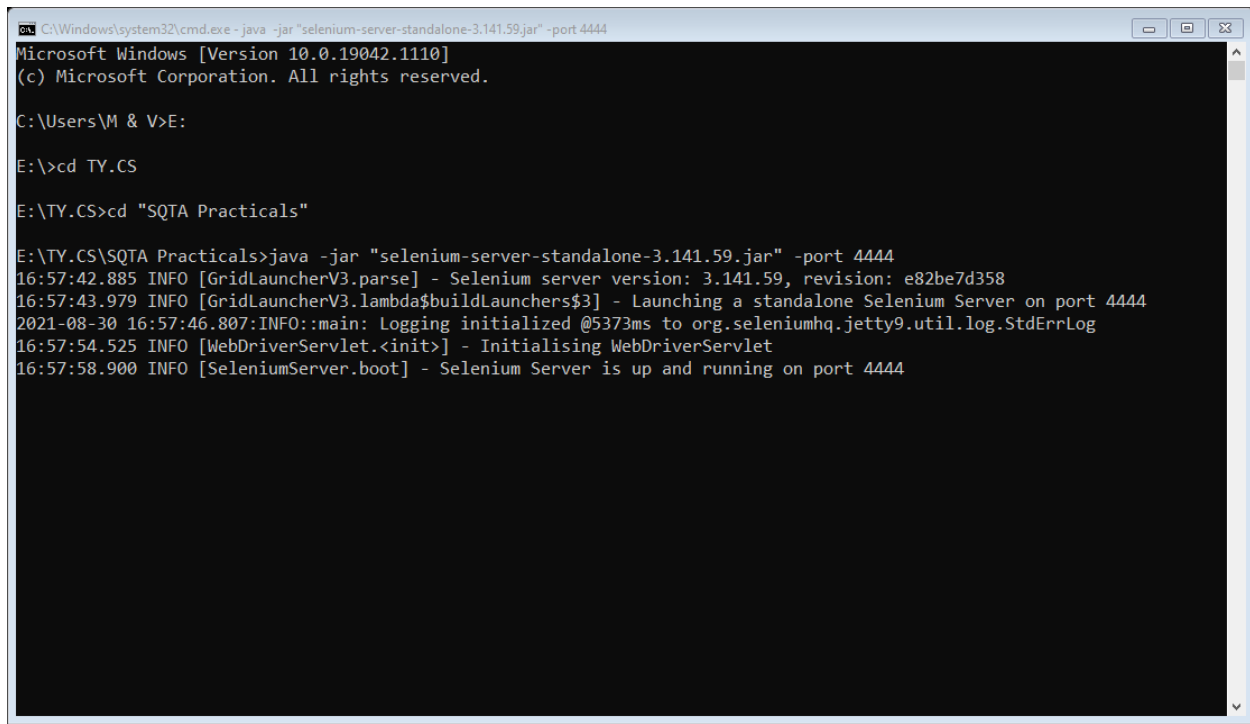
Number 2 : <input type="text" name="n2" value=""> <br> <br>
```

```
<input type="button" name="btn" value="Get GCD" onClick="gcd()"> <br> <br>
GCD is : <input type="text" name="result" value="">
</form>
</body>
</html>
```

After saving the code, open the webpage in any browser and copy the file path as given below.
And paste it in the path for webpage in code



Open the command prompt and locate to folder where you kept selenium-server-standalone-3.141.59.jar and run the following command



```
C:\Windows\system32\cmd.exe - java -jar "selenium-server-standalone-3.141.59.jar" -port 4444
Microsoft Windows [Version 10.0.19042.1110]
(c) Microsoft Corporation. All rights reserved.

C:\Users\M & V>E:

E:\>cd TY.CS

E:\TY.CS>cd "SQTA Practicals"

E:\TY.CS\SQTA Practicals>java -jar "selenium-server-standalone-3.141.59.jar" -port 4444
16:57:42.885 INFO [GridLauncherV3.parse] - Selenium server version: 3.141.59, revision: e82be7d358
16:57:43.979 INFO [GridLauncherV3.lambda$buildLaunchers$3] - Launching a standalone Selenium Server on port 4444
2021-08-30 16:57:46.807:INFO::main: Logging initialized @5373ms to org.seleniumhq.jetty9.util.log.StdErrLog
16:57:54.525 INFO [WebDriverServlet.<init>] - Initialising WebDriverServlet
16:57:58.900 INFO [SeleniumServer.boot] - Selenium Server is up and running on port 4444
```

Go to eclipse and run the file.

The Firefox will open and automatically the values will be entered and the result will be shown and also in console result will be shown.

