STQA Codes

Practical 3

Code:

STQAPrac3.java

/\*Aim: Install Selenium Server (Selenium RC) and demonstrate it using

script inJava/PHP.

/\*

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\*/

package stqaprac3;

import java.util.List;

import org.openqa.selenium.By;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.chrome.ChromeDriver;

/\*\*

\*

\* @author Ryuske

\*/

public class STQAPrac3 {

public static void main(String[] args) {

System.setProperty("webdriver.chrome.driver","D:\\Sem 5\\Codes\\STQA\\STQA\\STQA\\stqa(1)\\stqa\\chromedriver-win64\\chromedriver.exe");

WebDriver driver = new ChromeDriver();

driver.get("https://www.google.com");

driver.manage().window().maximize();

List lists = driver.findElements(By.xpath("//select/option"));

System.out.println("Total no. of lists: " + lists.size());

}

}

A screenshot of a computer

Description automatically generated

Practical 4

Code:

STQAPrac4.java

/\*Write and test a program to login a specific webpage.

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\*/

package stqaprac4;

import org.openqa.selenium.By;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.chrome.ChromeDriver;

/\*\*

\*

\* @author Ryuske

\*/

public class STQAPrac4 {

public static void main(String[] args) {

System.setProperty("webdriver.chrome.driver","D:\\Sem 5\\Codes\\STQA\\STQA\\STQA\\stqa(1)\\stqa\\chromedriver-win64\\chromedriver.exe");

WebDriver driver = new ChromeDriver();

driver.get("http://localhost/login\_net.php");

driver.manage().window().maximize();

driver.findElement(By.id("user")).sendKeys("Admin");

driver.findElement(By.id("pass")).sendKeys("1234");

driver.findElement(By.id("login")).click();

if(driver.getTitle().contains("welcome")){

System.out.print("Login Successful!");

}

else{

System.out.print("Login Failed!");

}

}

}

login\_net.php

<?php

if(isset($\_POST['login'])){

$user = $\_POST['user'];

$pass = $\_POST['pass'];

if($user=="Harsh" && $pass=="123"){

echo"<h1>Welcome Harsh!</h1>";

}

else{

echo"<h1>Invalid username or password</h1>";

}

}

?>

<html>

<body>

<br>

<br>

<form method="POST">

<input placeholder="Enter Username" type="text" name="user" id="user"/><br>

<input placeholder="Enter Password" type="password" name="pass" id="pass"/><br>

<button name="login" id="login" type="submit">Login</button>

</form>

</body>

</html>

A screenshot of a login box

Description automatically generated

Practical 5

Code:

/\* Write and test a program to check the number of links, buttons

andfields a webpage has.

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\*/

package stqaprac5;

import java.io.FileInputStream;

import java.io.FileNotFoundException;

import java.io.FileOutputStream;

import java.io.IOException;

import jxl.Workbook;

import jxl.Sheet;

import jxl.read.biff.BiffException;

import jxl.write.Label;

import jxl.write.WritableSheet;

import jxl.write.WritableWorkbook;

import jxl.write.WriteException;

/\*\*

\*

\* @author Ryuske

\*/

public class STQAPrac5 {

public static void main(String[] args) throws FileNotFoundException, IOException,

BiffException, WriteException {

FileInputStream fi=new FileInputStream("D:\\Sem 5\\Codes\\STQA\\STQA\\STQA\\stqa(1)\\stqa\\Student1.xls");

Workbook w= Workbook.getWorkbook(fi);

Sheet s=w.getSheet(0);

String a[][]=new String[s.getRows()][s.getColumns()];

FileOutputStream to=new FileOutputStream("D:\\Sem 5\\Codes\\STQA\\STQA\\STQA\\stqa(1)\\stqa\\Student2.xls");

WritableWorkbook wwb=Workbook.createWorkbook(to);

WritableSheet ws=wwb.createSheet("result1",0);

for (int i=0;i<s.getRows();i++) {

for (int j=0;j<s.getColumns();j++) {

a[i][j]=s.getCell(j,i).getContents();

Label l=new Label(j,i,a[i][j]);

ws.addCell(l);

}

}

Label l=new Label(6,0,"Result");

ws.addCell(l);

for (int i=1;i<s.getRows();i++){

for (int j=5; j<s.getColumns(); j++ ){

a[i][j]=s.getCell(j,i).getContents();

int x=Integer.parseInt(a[i][j]);

if (x/3>35){

Label l1=new Label(6,i,"pass");

ws.addCell(l1);

}

else{

Label l1=new Label(6,i,"fail");

ws.addCell(l1);

break;

}

}

}

wwb.write();

wwb.close();

}

}

A screenshot of a spreadsheet

Description automatically generated

A table with numbers and letters

Description automatically generated

Practical 6

Code:

STQAPrac6.java

/\* Write and test a program to select the number of students who

have scored more than 60 in any onesubject.

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\*/

package stqaprac6;

import java.io.FileInputStream;

import java.io.FileNotFoundException;

import java.io.FileOutputStream;

import java.io.IOException;

import jxl.Sheet;

import jxl.Workbook;

import jxl.read.biff.BiffException;

import jxl.write.Label;

import jxl.write.WritableSheet;

import jxl.write.WritableWorkbook;

import jxl.write.WriteException;

/\*\*

\*

\* @author Ryuske

\*/

public class STQAPrac6 {

public static void main(String[] args) throws FileNotFoundException, IOException,

BiffException, WriteException {

// TODO code application logic here

FileInputStream fi = new FileInputStream("D:\\Sem 5\\Codes\\STQA\\STQA\\STQA\\stqa(1)\\stqa\\Marks1.xls");

Workbook w = Workbook.getWorkbook(fi);

Sheet s = w.getSheet(0);

String a[][]= new String[s.getRows()][s.getColumns()];

FileOutputStream fo = new FileOutputStream("D:\\Sem 5\\Codes\\STQA\\STQA\\STQA\\stqa(1)\\stqa\\Marks2.xls");

WritableWorkbook wwb = Workbook.createWorkbook(fo);

WritableSheet ws = wwb.createSheet("result1", 0);

System.out.println();

for (int i=0; i<s.getRows(); i++){

String temp[] = new String[s.getColumns()];

boolean flag = false;

for(int j=0; j<s.getColumns(); j++){

temp[j] = s.getCell(j,i).getContents();

if(i >= 1 && j>=2 && j<=4){

if(Integer.parseInt(temp[j]) >= 60){

flag = true;

}

}

}

if(flag){

for(int k=0; k<temp.length;k++){

Label l2 = new Label(k,i,temp[k]);

ws.addCell(l2);

}

}

}

wwb.write();

wwb.close();

}

}

A table with numbers and letters

Description automatically generated

A screenshot of a spreadsheet

Description automatically generated

Practical 7

Code:

STQAPrac7.java:

/\*

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\*/

package stqaprac7;

import java.util.List;

import org.openqa.selenium.By;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.WebElement;

import org.openqa.selenium.chrome.ChromeDriver;

/\*\*

\* @author Ryuske

\*/

public class STQAPrac7 {

public static void main(String[] args) {

System.setProperty("webdriver.chrome.driver","D:\\Sem 5\\Codes\\STQA\\STQA\\STQA\\stqa(1)\\stqa\\chromedriver-win64\\chromedriver.exe");

WebDriver driver = new ChromeDriver();

driver.get("http://www.google.com");

driver.manage().window().maximize();

List<WebElement> links = driver.findElements(By.tagName("a"));

List<WebElement> buttons = driver.findElements(By.tagName("button"));

List<WebElement> fields = driver.findElements(By.tagName("input"));

System.out.println("Total No. of links = " +links.size());

System.out.println("Total No. of buttons = " +buttons.size());

System.out.println("Total No. of fields = " +fields.size());

driver.quit();

}

}

Practical 8

Code:

STQAPractical8.java:

/\*

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\*/

package stqaprac8;

import java.util.List;

import org.openqa.selenium.By;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.chrome.ChromeDriver;

/\*\*

\*

\* @author Ryuske

\*/

public class STQAPrac8 {

public static void main(String[] args) {

// TODO code application logic here

System.setProperty("webdriver.chrome.driver","D:\\Sem 5\\Codes\\STQA\\STQA\\STQA\\stqa(1)\\stqa\\chromedriver-win64\\chromedriver.exe");

WebDriver driver = new ChromeDriver();

driver.get("D:\\Sem 5\\Codes\\STQA\\STQA\\STQA\\stqa(1)\\stqa\\chromedriver-win64\\index.html");

driver.manage().window().maximize();

List list1 = driver.findElements(By.xpath("//select/option"));

List list2 = driver.findElements(By.xpath("//ul/li"));

System.out.println("Total no. of Subjects: " +list2.size());

System.out.println("Total no. of Characters: " +list1.size());

}

}

A close-up of a computer screen

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Practical 9

Code:

STQAPrac9:

/\*

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\*/

package stqaprac9;

import java.util.List;

import org.openqa.selenium.By;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.WebElement;

/\*\*

\*

\* @author Ryuske

\*/

public class STQAPrac9 {

public static void main(String[] args) {

// TODO code application logic here]

System.setProperty("webdriver.chrome.driver","D:\\Sem 5\\Codes\\STQA\\STQA\\STQA\\stqa(1)\\stqa\\chromedriver-win64\\chromedriver.exe");

WebDriver driver = new org.openqa.selenium.chrome.ChromeDriver();

driver.get("D:\\Sem 5\\Codes\\STQA\\STQA\\STQA\\stqa(1)\\stqa\\chromedriver-win64\\pract9.html");

driver.manage().window().maximize();

List<WebElement> check = driver.findElements(By.xpath("//input[@type='checkbox']"));

System.out.println("Total no of checkboxes : " + check.size());

int checked\_Count=0,unchecked\_Count=0;

for(int i=0;i<check.size();i++)

{

if(check.get(i).isSelected())

{

checked\_Count++;

}

else

{

unchecked\_Count++;

}

}

System.out.println("Number of selected checkboxes are : "+checked\_Count);

System.out.println("Number of unselected checkboxes are : "+unchecked\_Count);

}}

A screenshot of a computer

Description automatically generated