

PRAC 3 GCD

(script) java code

```
package gcd1package;
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.firefox.FirefoxDriver;
import org.openqa.selenium.firefox.FirefoxOptions;
import org.openqa.selenium.firefox.FirefoxProfile;
public class Test {
    static String driverPath = "D:\\STQA_Files\\stqa\\geckodriver.exe";
    public static void main(String[] args) {
        System.setProperty("webdriver.gecko.driver",driverPath);
        FirefoxProfile fp = new FirefoxProfile();
        fp.setPreference(FirefoxProfile.PORT_PREFERENCE,"7055");
        FirefoxOptions options = new FirefoxOptions();
        options.setProfile(fp);
        WebDriver driver=new FirefoxDriver(options);
        driver.get("D:\\Stqa Pracs\\prac1.html");
        driver.manage().window().maximize();
        driver.findElement(By.name("n1")).sendKeys("36");
        driver.findElement(By.name("n2")).sendKeys("6");
        driver.findElement(By.name("btn")).click();
        String
        result=driver.findElement(By.name("result")).getAttribute("name=result");
        System.out.println("GCD="+result);
    }
}
```

HTML CODE

```
<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>

<center>

<h1>---Program to calculate GCD of two numbers---</h1>

<hr color="red">

<form name="myform">

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

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

<input type="button" name="btn" value="Get GCD" onClick="gcd()"><br><br>

GCD: <input type="text" name="result" value="">

</form>

</center>

</body>

</html>

```

PRAC 5 Script(java code)

```

package excelwrite;
import jxl.*; //used for WorkbookSettings,Workbook
import jxl.write.*; //used for WriteException,WritableWorkbook,WritableSheet,Label
import jxl.write.Number; //used for Number
import java.io.*; //used for IOException,File
import java.util.Locale; //used for Locale
public class Excelwriter {
public static void main(String[] args) throws IOException,WriteException {
// TODO Auto-generated method stub
int r=0,c=0;
String header[]={"StudentName","Subject1","Subject2","Subject3","Total"};
String
sname[]={ "Carls","James","Paul","Philip","Smith","Thomson","Rhodey","Stark","Gary"
,"AnneMarie"};
int marks[]={50,45,60,55,70,45,67,78,89,90,30};
File file = new File("student.xls");
WorkbookSettings wbSettings = new WorkbookSettings();
wbSettings.setLocale(new Locale("en", "EN"));
WritableWorkbook workbook = Workbook.createWorkbook(file,
wbSettings);
workbook.createSheet("Report", 0);
WritableSheet excelSheet = workbook.getSheet(0);
//creating header row
for(r=0;r<1;r++) {
for(c=0;c<header.length;c++) {
Label l=new Label(c,r,header[c]);
excelSheet.addCell(l);
}
}
//filling name in column1
for(r=1;r<=sname.length;r++) {

```

```

for(c=0;c<1;c++) {
Label l=new Label(c,r,sname[r-1]);
excelSheet.addCell(l);
}
}
//filling name in column2,3,4
for(r=1;r<=sname.length;r++) {
for(c=1;c<4;c++) {
Number num = new Number(c, r, marks[r-1]);
excelSheet.addCell(num);
}
}
//filling name in total
for(r=1;r<=sname.length;r++) {
for(c=4;c<5;c++) {
int total=marks[r-1]+marks[r-1]+marks[r-1];
Number num = new Number(c, r, total);
excelSheet.addCell(num);
}
}
workbook.write();
workbook.close();
System.out.println("Excel File Created!!!!");
}
}

```

Prac 6 ExcelReader (script)

Code

```

package excelread;
import java.io.File;
import java.io.IOException;
import jxl.Cell;
import jxl.CellType;
import jxl.Sheet;
import jxl.Workbook;
import jxl.read.biff.BiffException;
public class Excelreader {
private String inputFile;
public void setInputFile(String inputFile) {this.inputFile = inputFile;}
public void read() throws IOException {
File inputWorkbook = new File(inputFile);
Workbook w;
boolean flag=false;
int count=0;
try {
w = Workbook.getWorkbook(inputWorkbook);
// Get the first sheet
Sheet sheet = w.getSheet(0);
// Loop over first 10 column and lines
for (int j = 0; j < sheet.getRows(); j++) {
for (int i = 0; i < sheet.getColumns()-1; i++) {
Cell cell = sheet.getCell(i, j);
if (cell.getType() == CellType.NUMBER) {
if(Integer.parseInt(cell.getContents())>=60){
flag = true;
if(flag == true){
count++;
flag=false;
}
}
}
}
}
}
}

```

```

}
break;
}
}
}
}
System.out.println("Total number of students who scored more than 60 in one or more subjects: "
+count);
}
catch (BiffException e) {e.printStackTrace();}
}
public static void main(String[] args) throws IOException {
Excelreader test = new Excelreader();
test.setInputFile("C:\\Users\\pande\\eclipse-workspace\\p5\\student.xls");
test.read();
}
}
}

```

Prac 7 FB LOGIN

```

package p7;

import org.openqa.selenium.By;
import org.openqa.selenium.Keys;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.firefox.FirefoxDriver;
import org.openqa.selenium.firefox.FirefoxOptions;

public class FB_login {
    static String driverPath = "D:\\STQA_Files\\stqa\\geckodriver.exe";

    public static void main(String[] args) {
        System.setProperty("webdriver.gecko.driver", driverPath);

        FirefoxOptions options = new FirefoxOptions();
        options.addArguments("--start-maximized");

        WebDriver driver = new FirefoxDriver(options);
        String appUrl = "https://www.facebook.com/";
        driver.get(appUrl);

        String expectedTitle = "Facebook - log in or sign up";
        String actualTitle = driver.getTitle();

        if (expectedTitle.equalsIgnoreCase(actualTitle)) {
            System.out.println(" Verification successful - Correct title displayed.");
        } else {
            System.out.println(" Verification failed - Incorrect title displayed.");
            System.out.println("Actual title: " + actualTitle);
        }

        WebElement username = driver.findElement(By.id("email"));
        username.clear();
        username.sendKeys("your_email_here");

        WebElement password = driver.findElement(By.id("pass"));
        password.clear();
        password.sendKeys("your_password_here");
        password.sendKeys(Keys.ENTER);

        try {
            Thread.sleep(3000);
        } catch (InterruptedException e) {

```

```

        e.printStackTrace();
    }

    driver.quit();
    System.out.println(" Test script executed successfully.");
}
}

```

Prac 8 FindAllLinks

```

package p8;

import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.firefox.FirefoxDriver;
import org.openqa.selenium.firefox.*;
import org.openqa.selenium.firefox.FirefoxOptions;
import org.openqa.selenium.firefox.FirefoxProfile;
import org.openqa.selenium.firefox.internal.ProfileIni;

public class FindAllLinks{
    static String driverPath = "D:\\STQA_Files\\stqa\\geckodriver.exe";

    public static void main(String[] args) {
        System.setProperty("webdriver.gecko.driver", driverPath);

        WebDriver driver = new FirefoxDriver();
        String appUrl = "https://www.google.co.in/";
        driver.get(appUrl);

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

        for (int i = 1; i < links.size(); i = i + 1) {
            System.out.println(links.get(i).getText());
        }

        System.out.println("Total No. of Links: " + links.size());
        // driver.quit();
    }
}

```

Prac 9 combobox

--html code

```

<select id="continents">
    <option value="Asia">Asia</option>
    <option value="Europe">Europe</option>
    <option value="Africa">Africa</option>
</select>

```

JAVA CODE

```
package p9;

import java.util.List;
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.firefox.FirefoxDriver;
import org.openqa.selenium.support.ui.Select;

public class P9 {
    static String driverPath = "D:\\STQA_Files\\stqa\\geckodriver.exe";

    public static void main(String[] args) {
        System.setProperty("webdriver.gecko.driver", driverPath);
        WebDriver driver = new FirefoxDriver();

        String appUrl = "D:\\Stqa Pracs\\prac9.html";
        driver.get(appUrl);

        Select select = new Select(driver.findElement(By.id("continents")));
        List<WebElement> oSize = select.getOptions();
        int iListSize = oSize.size();

        for (int i = 0; i < iListSize; i++) {
            String sValue = select.getOptions().get(i).getText();
            System.out.println(sValue);
        }

        System.out.println("Total No. Items in Dropdown: " + iListSize);
    }
}
```

Prac 10 checkbox

HTML code

```
<input type="checkbox" value="A">A<br>
<input type="checkbox" value="B" CHECKED>B<br>
<input type="checkbox" value="C">C<br>
<input type="checkbox" value="D" CHECKED>D<br>
<input type="checkbox" value="E">E<br>
```

JAVA CODE

```
package p11;

import java.util.List;
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.firefox.FirefoxDriver;
import org.openqa.selenium.firefox.*;
import org.openqa.selenium.firefox.FirefoxOptions;
import org.openqa.selenium.firefox.FirefoxProfile;
import org.openqa.selenium.firefox.ProfilesIni;

public class P11 {
```

```

static String driverPath = "D:\\STQA_Files\\stqa\\geckodriver.exe";
public static void main(String[] args) {
    System.setProperty("webdriver.gecko.driver", driverPath);

    WebDriver driver = new FirefoxDriver();

    String appUrl = "D:\\Stqa Pracs\\prac10.html";

    driver.get(appUrl);

    List<WebElement> checkboxes =
driver.findElements(By.xpath("//input[@type='checkbox']"));
    int checkedCount = 0, uncheckedCount = 0;

    for (int i = 0; i < checkboxes.size(); i++) {
        System.out.println("Checkbox " + i + " selected " +
checkboxes.get(i).isSelected());
        if (checkboxes.get(i).isSelected()) {
            checkedCount++;
        } else {
            uncheckedCount++;
        }
    }
    System.out.println("No. of selected checkbox: " + checkedCount);
    System.out.println("No. of unselected checkbox: " + uncheckedCount);
}
}

```