

Do-While :

```
#include<stdio.h>
```

```
void main( )
```

```
{
```

```
int i,n=5,j=0; clrscr();
```

```
printf("Enter the Number ");
```

```
Scanf("%d", &i);
```

```
do
```

```
{
```

```
if(i%2==0)
```

```
{
```

```
printf("%d is a Even Number\n",i) ; i++;
```

```
}
```

```
else
```

```
{
```

```
printf("%d is a Odd Number\n",i);
```

```
i++;
```

```
}
```

```
j++;
```

```
}while(i>0 && j<n); getch();
```

```
}
```

While :

```
#include<stdio.h> #include <conio.h> void main (){  
int i, n=5,j=1; clrscr();  
printf("enter a no: "); scanf("%d", &i);  
while (i>0 && j<n)  
{ if(i%2==0)  
{  
printf("%d is a even number \n",i); i++;  
j++;  
}  
Else  
{  
printf("%d is a odd number \n",i); i++;  
j++;  
}  
}  
getch();  
}
```

If-Else :

```
#include<stdio.h> #include <conio.h> void main()
```

```
{
```

```
int i,j; clrscr();
```

```
printf("Enter the Number: "); scanf("%d", &j);
```

```
for(i=1 ;i<=5;i++)
```

```
{
```

```
if( j%2==0)
```

```
{
```

```
printf("%d is a Even Number \n",j);
```

```
}
```

```
else
```

```
{
```

```
printf("%d is a odd Number \n",j);
```

```
}
```

```
j++;
```

```
}
```

```
getch();
```

```
}
```

## SWITCH CASE :

```
#include<stdio.h>
void main( )
{
int a,b,c,i;
clrscr( );

printf("1.Add/n 2.Sub /n 3.Mul /n 4.Div /n Enter Your choice ");
scanf("%d", &i);

printf("Enter a,b values "); scanf("%d",&a);
scanf("%d", &b);

switch(i)
{
case 1:
c=a+b;
printf(" The sum of a & b is: %d ",c);
break;

case 2:
c=a-b;
printf("The Diff of a & b is: %d" ,c);
break;

case 3:
c=a*b;
printf(" The Mul of a & b is: %d ",c);
break;

case 4:
c=a/b;
printf("The Div of a & b is: %d" ,c);
break;
```

**default:**

```
printf(" Enter your choice ");
```

```
    break;
```

```
}
```

```
getch();
```

```
}
```

FOR CASE :

```
#include<stdio.h>
#include <conio.h>
void main( )

{
int i,j;
clrscr( );

printf("Enter the Number: ");
scanf("%d", &j);

for(i=1 ;i<=5;i++)
{
if( j%2==0)
{
printf("%d is a Even Number \n",j);
}
Else
{
printf("%d is a odd Number \n",j);
}

j++;
}

getch( );
}
```

## MATRIX MULTIPLICATION :

```
#include<stdio.h>
#include<stdlib.h>
void main( )
{
int a[10][10],b[10][10],mul[10][10],r1,c1, r2, c2,i,j,k;
system("cls");
printf("Enter the number of rows and columns for 1st Matrix= ");
scanf("%d %d",&r1, &c1);
printf ("Enter the number of rows and columns for 2nd Matrix= ");
scanf ("%d %d",&r2, &c2);
if(c1==r2)
{
printf ("Enter the %d elements for 1st matrix = \n", (r1*c1));
for(i=0;i<r1;i++)
{
for(j=0;j<c1;j++)
{
scanf("%d",&a[i][j]);
}
}
printf("Enter the %d elements for 2nd matrix = \n", (r2*c2));
for(i=0;i<r2;i++)
{
for(j=0;j<c2;j++)
{
scanf("%d",&b[i][j]);
}
}
printf("Multiplication of two matrixes is = \n"); for(i=0;i<r1;i++)
{
for(j=0;j<c2;j++)
{
mul[i][j]=0; for(k=0;k<c1;k++)
{
mul[i][j]+=a[i][k]*b[k][j];
}
}
}
```

```
}
```

```
for(i=0;i<r1;i++)  
{  
for(j=0;j<c2;j++)  
{  
printf("%d\t",mul[i][j]);  
}  
printf("\n");  
}  
}
```

```
else  
{  
printf("Matrix Multiplication is Not possible...");  
}  
getch();  
}
```



## 6.FIREFOX BROWSER INVOKING :

```
import java.time.Duration;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.firefox.FirefoxDriver;
public class Invoke_FF_Browser {

    public static void main(String[] args) {

        System.setProperty("webdriver.gecko.driver","D:\\Selenium\\geckodriver.exe");

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

        driver.manage().timeouts().implicitlyWait(Duration.ofSeconds(10));
        String title=driver.getTitle();

        if(title.equals("Google"))
        {

            System.out.println("Pass:Title is Google");

        }
        else
        {

            System.out.println("Fail: Title is not Google: actual title
            is: "+title);

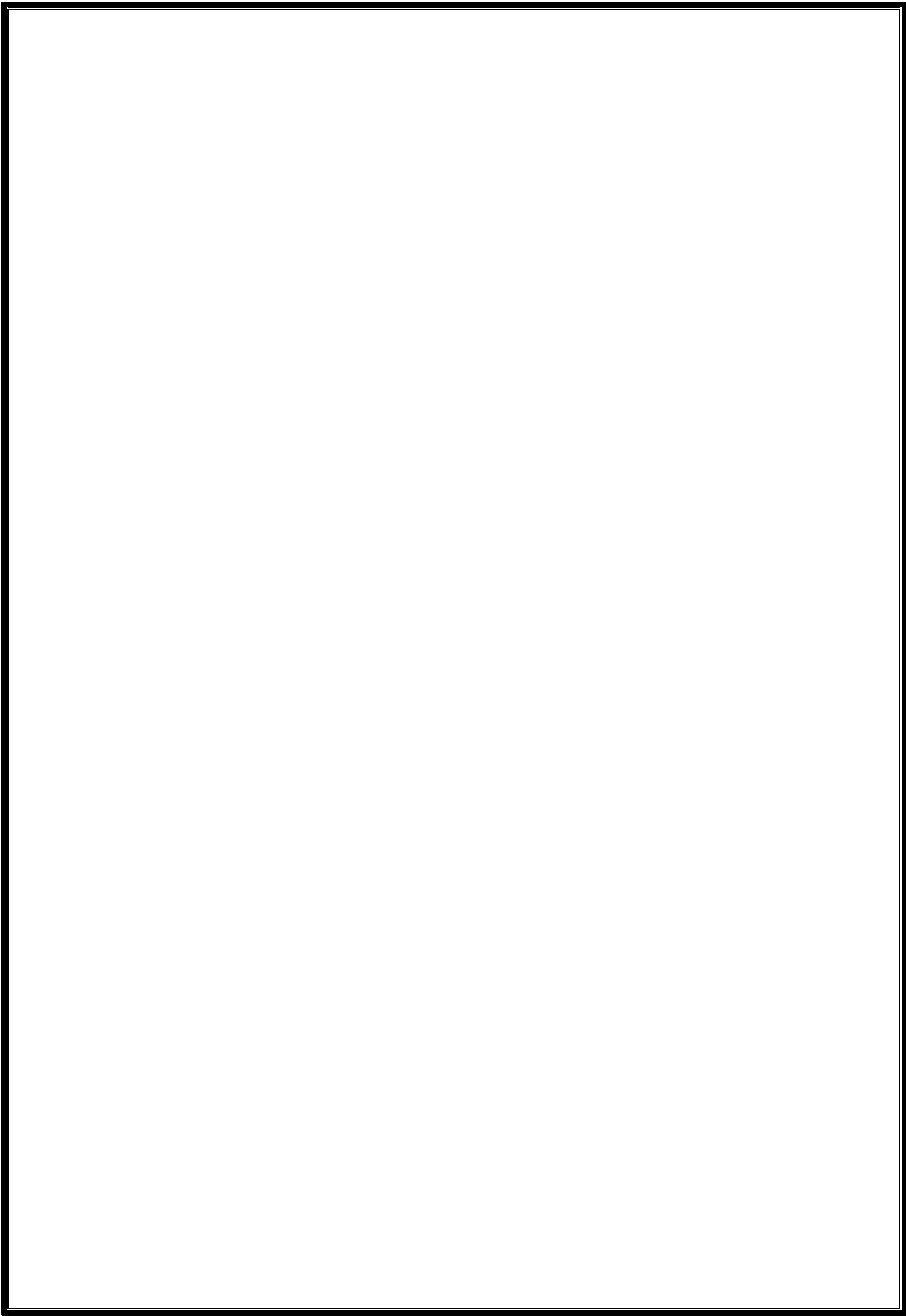
        }

        String url=driver.getCurrentUrl(); if(url.contains("google.co.in"))
        {

            System.out.println("Pass: url has co.in");

        }
        else
        {
```

```
        System.out.println("Fail:url dont have co.in -- Current URL  
is: "+url);  
    }  
    driver.quit();  
}  
}
```



## 8.b.INTERNET EXPLORER LAUNCH :

```
import java.time.Duration;  
import org.openqa.selenium.WebDriver;  
import org.openqa.selenium.ie.InternetExplorerDriver;
```

```
public class Invoke_IE  
{  
public static void main(String[ ] args)  
{
```

```
System.setProperty("webdriver.ie.driver",  
"D:\\Selenium\\IEDriverServer.exe");
```

```
WebDriver driver = new InternetExplorerDriver();  
driver.manage().window().maximize(); driver.get("http://www.google.co.in");
```

```
driver.manage().timeouts().implicitlyWait(Duration.ofSeconds(10));  
driver.close( );  
}  
}
```

## 7.Chrome Browser :

```
import java.time.Duration;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.chrome.ChromeDriver;

import org.openqa.selenium.chrome.ChromeOptions;

public class Invoke_Chrome

{

public static void main(String[] args)

{

System.setProperty("webdriver.chrome.driver",

"D:\\Selenium\\chromedriver.exe");


ChromeOptions options = new ChromeOptions();

options.addArguments("--remote-allow-origins=*");

WebDriver driver = new ChromeDriver(options);

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

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

driver.manage().timeouts().implicitlyWait(Duration.ofSeconds(10));

driver.quit();

}

}
```

8a. EDGE Browser :

```
import java.time.Duration;

import org.openqa.selenium.WebDriver
;

import org.openqa.selenium.edge.Edge
Driver;

import

org.openqa.selenium.edge.EdgeOptions;

public class Invoke_MsEdge {

public static void main(String[] args) {

System.setProperty("webdriver.edge.driver",
"D:\\Selenium\\msedgedriver.exe");

EdgeOptions options = new EdgeOptions();
options.addArguments("--remote-allow-origins=*");

WebDriver driver = new EdgeDriver(options);
driver.manage().window().maximize();

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

driver.manage().timeouts().implicitlyWait(Duration.ofSeconds(10));

driver.quit();
}
}
```

8b.INTERNET EXPLORER :

```
import java.time.Duration;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.ie.InternetExplorerDriver;

public class Invoke_IE

{

public static void main(String[ ] args)

{

System.setProperty("webdriver.ie.driver",

                    "D:\\Selenium\\IEDriverServer.exe");

WebDriver driver = new InternetExplorerDriver();

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

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

driver.manage().timeouts().implicitlyWait(Duration.ofSeconds(10));

driver.close();

}

}
```

## 9. Verifying Login Functionality :

```
import java.time.Duration;

import org.openqa.selenium.By;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.firefox.FirefoxDriver;

public class Login_Application {

    public static void main(String[] args) {

        System.setProperty("webdriver.gecko.driver",
"D:\\Selenium\\geckodriver.exe");

        WebDriver driver = new FirefoxDriver();

        driver.get("https://demo.guru99.com/test/newtours/");
        driver.manage().timeouts().implicitlyWait(Duration.ofSeconds(20));
        String title = driver.getTitle();

        System.out.println("Loaded Website : " + title);
        driver.findElement(By.name("userName")).sendKeys("user");
        driver.findElement(By.name("password")).sendKeys("user");
        driver.findElement(By.name("submit")).click();
        driver.manage().timeouts().implicitlyWait(Duration.ofSeconds(20));
        String pagetext = driver.getPageSource();

        // System.out.println(pagetext);

        if (pagetext.contains("Login Successfully")) {

            System.out.println("Pass: Login Successful");

        } else {

            System.out.println("Fail: Login UnSuccessful");

        }

        driver.quit();

    }

}
```



## 11.a. Add a cookie:

```
import java.time.Duration;

import org.openqa.selenium.Cookie;
import org.openqa.selenium.WebDriver;

import org.openqa.selenium.chrome.ChromeDriver;
import org.openqa.selenium.chrome.ChromeOptions;

public class Add_Cookie {

    public static void main(String[] args) {

        System.setProperty("webdriver.chrome.driver",
            "D:\\Selenium\\chromedriver.exe");

        ChromeOptions options = new ChromeOptions();
        options.addArguments("--remote-allow-origins=*");
        WebDriver driver = new ChromeDriver(options);

        try {

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

            driver.manage().timeouts().implicitlyWait(Duration.ofSeconds(10));

            // Adds the cookie into current browser context
            driver.manage().addCookie(new Cookie("key", "value"));

        } finally {

            driver.quit();

        }

    }

}
```

### 11.b. Get Named Cookie:

```
package cookie;

import java.time.Duration;

import org.openqa.selenium.Cookie;
import org.openqa.selenium.WebDriver;

import org.openqa.selenium.chrome.ChromeDriver;
import org.openqa.selenium.chrome.ChromeOptions;

public class Get_Named_Cookie {

    public static void main(String[] args) {

        System.setProperty("webdriver.chrome.driver",
            "D:\\Selenium\\chromedriver.exe");

        ChromeOptions options = new ChromeOptions();
        options.addArguments("--remote-allow-origins=*");
        WebDriver driver = new ChromeDriver(options);

        try {

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

            driver.manage().timeouts().implicitlyWait(Duration.ofSeconds(10));

            driver.manage().addCookie(new Cookie("Test", "Value of
Cookie"));

            // Get cookie details with named cookie 'Test'

            Cookie cookie1 = driver.manage().getCookieNamed("Test");
            System.out.println(cookie1);

        } finally {

            driver.quit ( );

        }

    }

}
```

### 11.c. Get all cookies:

```
import java.time.Duration;
import java.util.Set;

import org.openqa.selenium.Cookie;
import org.openqa.selenium.WebDriver;

import org.openqa.selenium.chrome.ChromeDriver;
import org.openqa.selenium.chrome.ChromeOptions;

public class Get_All_Cookies {

    public static void main(String[] args) {

        System.setProperty("webdriver.chrome.driver",
"D:\\Selenium\\chromedriver.exe");

        ChromeOptions options = new ChromeOptions();
        options.addArguments("--remote-allow-origins=*");
        WebDriver driver = new ChromeDriver(options);

        try {

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

            driver.manage(). timeouts().implicitlyWait(Duration.ofSeconds(10));

            // Add few cookies

            driver.manage().addCookie(new Cookie("test1", "cookie1"));
            driver.manage().addCookie(new Cookie("test2", "cookie2"));

            // Get All available cookies

            Set<Cookie> cookies = driver.manage().getCookies();
            System.out.println("Size of Cookies: " + cookies.size());
            System.out.println(cookies);

        } finally {

            driver.quit();

        }

    }

}
```

## 10. CLOSING WINDOWS WITHOUT USING QUIT METHOD :

```
import java.time.Duration;
import java.util.Set;

import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WindowType;
import org.openqa.selenium.chrome.ChromeDriver;
import org.openqa.selenium.chrome.ChromeOptions;

public class CloseBrowsers {

    public static void main(String[] args) {

        System.setProperty("webdriver.chrome.driver", "D:\\Selenium\\chromedriver.exe");

        ChromeOptions options = new ChromeOptions();
        options.addArguments("--remote-allow-origins=*");
        WebDriver driver = new ChromeDriver(options);

        driver.get("http://www.google.co.in/");
        driver.manage().timeouts().implicitlyWait(Duration.ofSeconds(10));

        driver.switchTo().newWindow(WindowType.TAB);
        driver.navigate().to("https://www.facebook.com/");
        driver.manage().timeouts().implicitlyWait(Duration.ofSeconds(10));

        Set<String> allWH = driver.getWindowHandles();int
        count = allWH.size(); System.out.println(count);

        for (String wh : allWH) {
            driver.switchTo().window(wh); String
            title = driver.getTitle();
            System.out.println(title); driver.close();

            try {
                Thread.sleep(5000);
            } catch (Exception e) {
                System.out.println(e);
            }
        }
    }
}
```

}

}

}

## 12. Facebook Account Creation page Verification :

```
public static void main(String[] args) throws InterruptedException {

// TODO Auto-generated method stub

System.setProperty("webdriver.chrome.driver","C://Swapna//chromedriver.exe");

ChromeDriver driver = new ChromeDriver();

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

Thread.sleep(2000);

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

username.sendKeys("ram72004@gmail.com");

WebElement password = driver.findElement(By.id("pass"));

password.sendKeys("ram1730");

WebElement Login = driver.findElement(By.name("login"));

Login.click();

Thread.sleep(2000);

driver.switchTo().alert().dismiss();

//driver.manage().timeouts().implicitlyWait(30, TimeUnit.SECONDS);

WebElement navigationclick =
driver.findElement(By.xpath("//*[@id=\"mount_0_0_rU\"]div/div[1]/div/div[2]/div[5]/div[1]
]/span/div/div[1]/div/svg/g/image"));

WebElement logout =
driver.findElement(By.xpath("//*[@id=\"mount_0_0_rU\"]div/div[1]/div/div[2]/div[5]/div[2]
]/div/div[2]/div[1]/div[1]/div/div/div/div/div/div/div[1]/div/div/div[1]/div[2]/div/div[
5]/div/div[1]/div[2]/div/div/div/div/span"));

navigationclick.click();

if(logout.isEnabled() && logout.isDisplayed()) {

logout.click();

}

else {
```

```
System.out.println("Element not found");
```

```
}
```

```
}
```

### 13. Gmail login & Logout Procedure :

```
package gmail;

import org.openqa.selenium.By;

import org.openqa.selenium.WebElement;

import org.openqa.selenium.chrome.ChromeDriver;

public class gmail1 {

    public static void main(String[] args) throws InterruptedException {

        try {

            // TODO Auto-generated method stub

            System.setProperty("webdriver.chrome.driver", "C://Swapna//chromedriver.exe");

            ChromeDriver driver = new ChromeDriver();

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

            String mail="joels172004@gmail.com";

            WebElement emailInput = driver.findElement(By.id("identifierId")); // textfield

            emailInput.clear();

            emailInput.sendKeys(mail);

            WebElement nextButton = driver.findElement(By.id("identifierNext")); // next button

            nextButton.click();

            Thread.sleep(8000);

            WebElement passwordInput = driver.findElement(By.name("Passwd")); //password field

            passwordInput.sendKeys("joel1730");

            WebElement passwordNextButton = driver.findElement(By.id("passwordNext")); //next button

            passwordNextButton.click();

            System.out.println("Clicked! Logged in !");

            Thread.sleep(5000);
```



```
WebElement profilePicture = driver.findElement(By.cssSelector("#gb >
div.gb_od.gb_id.gb_ud > div.gb_yd.gb_cb.gb_nd.gb_Ad > div.gb_Sd >
div.gb_b.gb_v.gb_Zf.gb_H > div > a")); // account logout button

profilePicture.click();

Thread.sleep(10000);

driver.switchTo().frame("account");

System.out.println("Found Frame!");

Thread.sleep(1000);

WebElement signoutbtn= driver.findElement(By.xpath("//div[contains(text(),'Sign out')]"));

signoutbtn.click();

Thread.sleep(5000);

System.out.println("Clicked! Signed out !");

driver.quit();

}

catch(Exception e) {

System.out.println("Found some Error!");

}

}

}
```