

```
package webTable;
```

```
import java.time.Duration;
```

```
import org.openqa.selenium.By;
```

```
import org.openqa.selenium.WebDriver;
```

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

```
public class ParticularTableData {
```

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

```
        WebDriver driver = new ChromeDriver();
```

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

```
        driver.get("https://rahulshettyacademy.com/AutomationPractice/");
```

```
        driver.manage().timeouts().implicitlyWait(Duration.ofMillis(2000));
```

```
        // single data
```

```
        String tableData =
```

```
driver.findElement(By.xpath("//table[@name='courses']/tr[7]/td[2]")).getText();
```

```
        System.out.println(tableData);
```

```
        // row reading
```

```
        int columnSize =
```

```
driver.findElements(By.xpath("//table[@name='courses']/tr[1]/th")).size();
```

```
        // read complete row
```

```
        for (int i = 1; i <= columnSize; i++) {
```

```
            String tableData1 =
```

```
driver.findElement(By.xpath("//table[@name='courses']/tr[9]/td[" + i + "]")).getText();
```

```
            System.out.print(tableData1 + " ");
```

```
        }
```

```
        System.out.println();
```

```
        // column reading
```

```
        int rowSize =
```

```
driver.findElements(By.xpath("//table[@name='courses']/tr")).size();
```

```
        for (int i = 1; i <= rowSize; i++) {
```

```
            if (i == 1) {
```

```
                String text =
```

```
driver.findElement(By.xpath("//table[@name='courses']/tr[" + i + "]/th[2]")).getText();
```

```
                System.out.println(text);
```

```
            } else {
```

```
                String text =
```

```
driver.findElement(By.xpath("//table[@name='courses']/tr[" + i + "]/td[2]")).getText();
```

```
                System.out.println(text);
```

```
            }
```

```
        }
```

```
    }
```

```
}
```

```
package webTable;
```

```
import java.time.Duration;
```

```
import org.openqa.selenium.By;
```

```
import org.openqa.selenium.WebDriver;
```

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

```
public class TotalRowsColumnsAndHeader {
```

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

```
        WebDriver driver= new ChromeDriver();
```

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

```
        driver.get("https://rahulshettyacademy.com/AutomationPractice/");
```

```
        driver.manage().timeouts().implicitlyWait(Duration.ofMillis(2000));
```

```
        int totalRows =
```

```
        driver.findElements(By.xpath("//table[@name='courses']/tr")).size();
```

```
        System.out.println("Total rows in table are "+totalRows);
```

```
        int
```

```
        totalColumns=driver.findElements(By.xpath("//table[@name='courses']/tr[1]/th")).size();
```

```
        System.out.println("Total columns in table are "+totalColumns);
```

```
        System.out.println();
```

```
        for(int i=1;i<=totalColumns;i++)
```

```
        {
```

```
            String text =
```

```
            driver.findElement(By.xpath("//table[@name='courses']/tr[1]/th["+i+"]")).getText();
```

```
            System.out.print(text+" ");
```

```
        }
```

```
    }
```

```
}
```

```
package webTable;
```

```
import java.time.Duration;
```

```
import org.openqa.selenium.By;
```

```
import org.openqa.selenium.WebDriver;
```

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

```
public class WholeTableReading {
```

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

```
        WebDriver driver = new ChromeDriver();
```

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

```
        driver.get("https://rahulshettyacademy.com/AutomationPractice/");
```

```
        driver.manage().timeouts().implicitlyWait(Duration.ofMillis(2000));
```

```
        // whole table
```

```
        // How many rows are there?
```

```
        int totalRows =
```

```
driver.findElements(By.xpath("//table[@name='courses']/tr")).size();
```

```
        // How many columns are there?
```

```
        int totalColumns =
```

```
driver.findElements(By.xpath("//table[@name='courses']/tr[1]/th")).size();
```

```
        // nested for loop
```

```
        // outer for loop-->rows-->totalRows
```

```
        // inner for loop-->columns-->totalColumns
```

```
        for (int i = 1; i <= totalRows; i++) {
```

```
            for (int j = 1; j <= totalColumns; j++) {
```

```
                if (i == 1) {
```

```
                    String text =
```

```
driver.findElement(By.xpath("//table[@name='courses']/tr[" + i + "]/th[" + j + "]"))  
                    .getText();
```

```
                    System.out.print(text + " ");
```

```
                } else {
```

```
                    String text =
```

```
driver.findElement(By.xpath("//table[@name='courses']/tr[" + i + "]/td[" + j + "]"))  
                    .getText();
```

```
                    System.out.print(text + " ");
```

```
                }
```

```
            }
```

```
            System.out.println();
```

```
        }
```

```
    }
```

```
}
```