**Q1- https://www.ultimateqa.com/simple-html-elements-for-automation/**
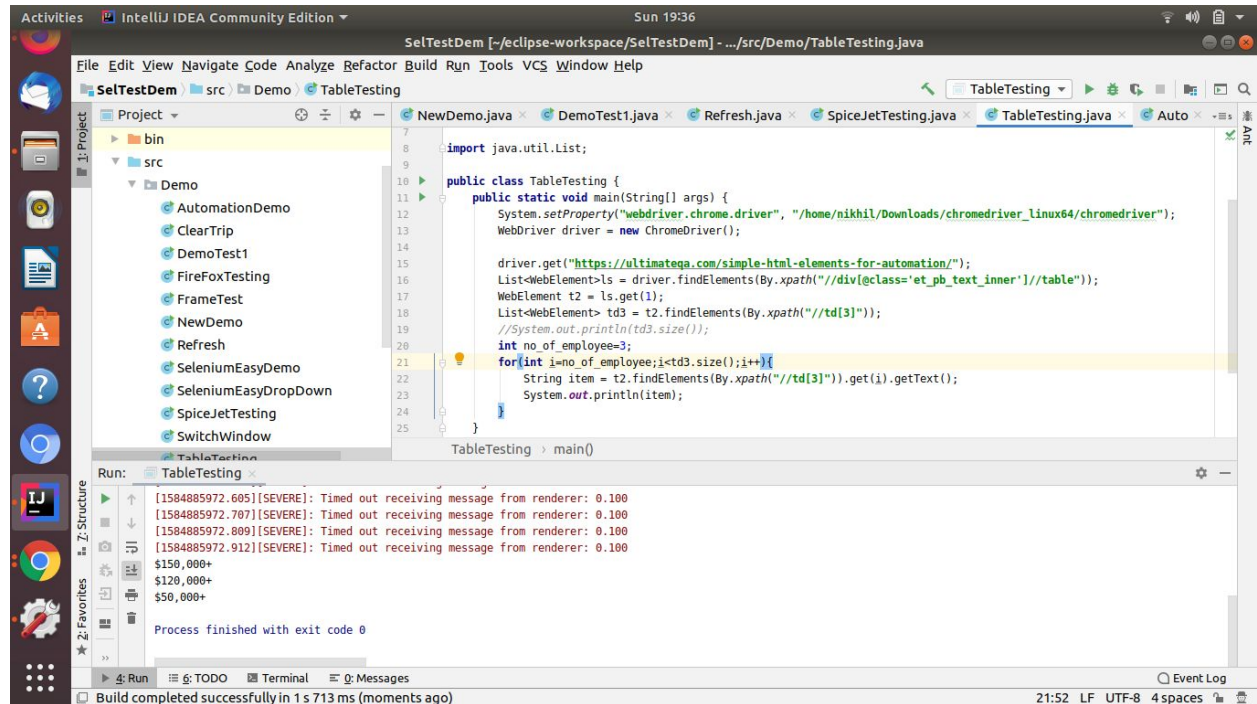**Fetch Quality Assurance Engineer Salary from the table under HTML Table with no id.**
**The code should be dynamic.**
**Ans.**



**Code:-**
**package** Demo;

**import** org.openqa.selenium.By;
**import** org.openqa.selenium.WebDriver;
**import** org.openqa.selenium.WebElement;
**import** org.openqa.selenium.chrome.ChromeDriver;

**import** java.util.List;

**public class** TableTesting {
  **public static void** main(String[] args) {
    System.*setProperty*(**"webdriver.chrome.driver"**,
**"/home/nikhil/Downloads/chromedriver_linux64/chromedriver"**);
    WebDriver driver = **new** ChromeDriver();

    driver.get(**"https://ultimateqa.com/simple-html-elements-for-automation/"**);
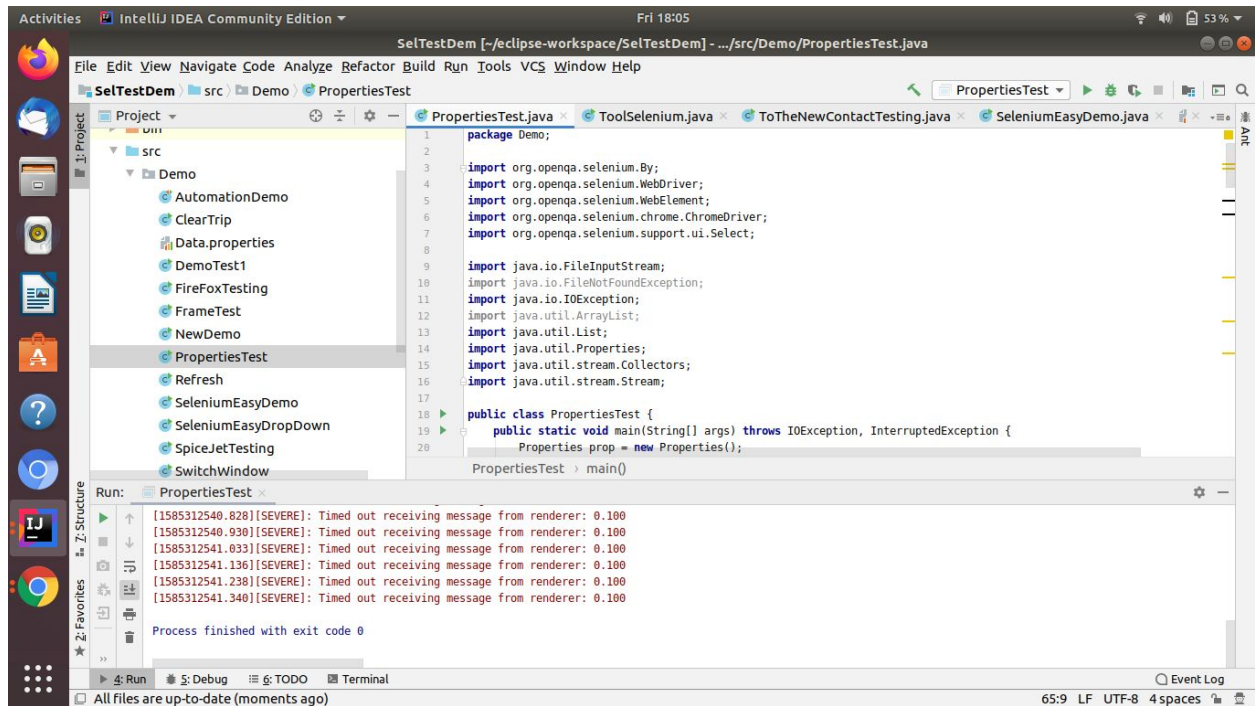
```
    List<WebElement>ls =
driver.findElements(By.xpath("//div[@class='et_pb_text_inner']//table"));
    WebElement t2 = ls.get(1);
    List<WebElement> td3 = t2.findElements(By.xpath("//td[3]"));
    //System.out.println(td3.size());
    int no_of_employee=3;
    for(int i=no_of_employee;i<td3.size();i++){
       String item = t2.findElements(By.xpath("//td[3]")).get(i).getText();
       System.out.println(item);
    }
  }
}
```

**Q2- Write an automation script for filling all fields of the registration page. (Registration.html)**
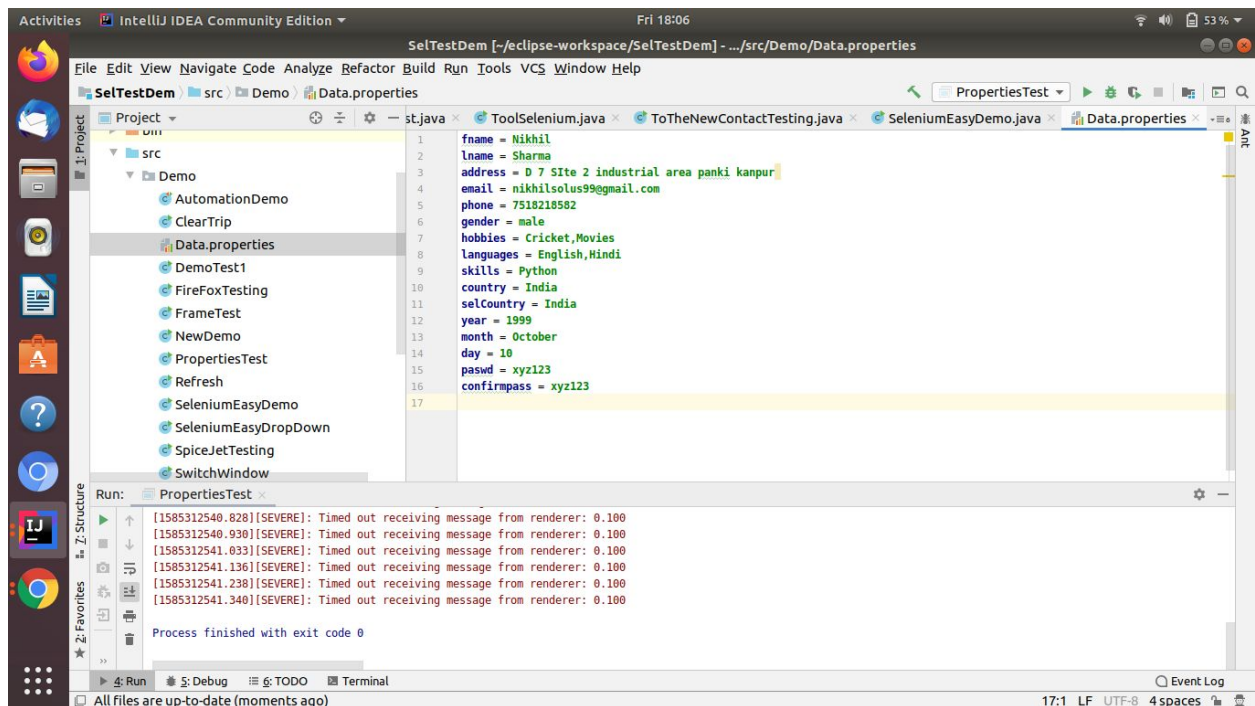
**But make sure that test data should be provided from a properties file.**

**Ans.**

**Properties File:-**



**Code:-**

```java
package Demo;

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

```java
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;
import org.openqa.selenium.support.ui.Select;

import java.io.FileInputStream;
import java.io.FileNotFoundException;
import java.io.IOException;
import java.util.ArrayList;
import java.util.List;
import java.util.Properties;
import java.util.stream.Collectors;
import java.util.stream.Stream;

public class PropertiesTest {
    public static void main(String[] args) throws IOException, InterruptedException {
        Properties prop = new Properties();
        FileInputStream file  = new FileInputStream("/home/nikhil/eclipse-workspace/SelTestDem/src/Demo/Data.properties");
        prop.load(file);

        //Configure Chrome

        System.setProperty("webdriver.chrome.driver", "/home/nikhil/Downloads/chromedriver_linux64/chromedriver");

        WebDriver driver = new ChromeDriver();
        driver.get("http://demo.automationtesting.in/Register.html");

        //Fetching elements and sending values through properties file
        driver.findElement(By.xpath("//input[@ng-model='FirstName']")).sendKeys(prop.getProperty("fname"));
        driver.findElement(By.xpath("//input[@ng-model='LastName']")).sendKeys(prop.getProperty("lname"));
        driver.findElement(By.xpath("//textarea[@ng-model='Adress']")).sendKeys(prop.getProperty("address"));
        driver.findElement(By.xpath("//input[@ng-model='EmailAdress']")).sendKeys(prop.getProperty("email"));
        driver.findElement(By.xpath("//input[@ng-model='Phone']")).sendKeys(prop.getProperty("phone"));
        String gender = prop.getProperty("gender");
        if(gender.equalsIgnoreCase("male")){
            driver.findElement(By.xpath("//input[@value='Male']")).click();
        }
        else if (gender.equalsIgnoreCase("Female")){
            driver.findElement(By.xpath("//input[@value='Female']")).click();
        }

        //Hobbies
        List<String> hobbies = Stream.of(prop.getProperty("hobbies").split(",")).collect(Collectors.toList());
        List<WebElement> hlist = driver.findElements(By.xpath("//label[@class='checks']"));
        List<WebElement> hcheck = driver.findElements(By.xpath("//input[@type='checkbox']"));
        for(int i=0;i<hlist.size();i++){
            String s= hlist.get(i).getText();
            if(hobbies.contains(s)){
                hcheck.get(i).click();
            }
        }
    }
}
```

```java
//Languages Selection
 List<String> langInput  = Stream.of(prop.getProperty("languages").split(",")).collect(Collectors.toList());
driver.findElement(By.id("msdd")).click();
 List<WebElement> language = driver.findElements(By.xpath("//div[@style='display:block;']/ul/a"));
for(int i=0;i<language.size();i++){
    String s= language.get(i).getText();
    if(langInput.contains(s)){
        language.get(i).click();
    }
}

//Skills
 List<String> skillsInput = Stream.of(prop.getProperty("skills").split(",")).collect(Collectors.toList());
Select skillsList = new Select(driver.findElement(By.id("Skills")));
for(String s: skillsInput){
    skillsList.selectByVisibleText(s);
}


//Country

 String country = prop.getProperty("country");
List<WebElement> countryList = driver.findElements(By.xpath("//select[@id='countries']/option"));
for(int i=0;i<countryList.size();i++){
    String s= countryList.get(i).getText();
    if(country.equalsIgnoreCase(s)){
        countryList.get(i).click();
        break;
    }
}

//Select Country

 String selCountry = prop.getProperty("selCountry");
driver.findElement(By.xpath("//span[@role='combobox']")).click();
Thread.sleep(2000);
List<WebElement> selCountryList  = driver.findElements(By.xpath("ul[@id='select2-country-results']//li"));
for(int i=0;i<selCountryList.size();i++){
    String s = selCountryList.get(i).getText();
    if(selCountry.equalsIgnoreCase(s)){
        selCountryList.get(i).click();
        break;
    }
}

//Date of birth
 //year

 String year = prop.getProperty("year");
```

```java
Select yearlist  = new Select(driver.findElement(By.id("yearbox")));
yearlist.selectByVisibleText(year);

//month
String month = prop.getProperty("month");
Select monthList = new Select(driver.findElement(By.xpath("//select[@ng-model='monthbox']")));
monthList.selectByVisibleText(month);

//day

String day = prop.getProperty("day");
Select daylist = new Select(driver.findElement(By.xpath("//select[@id='daybox']")));
daylist.selectByVisibleText(day);

String password = prop.getProperty("paswd");
driver.findElement(By.id("firstpassword")).sendKeys(password);

String confirmpass = prop.getProperty("confirmpass");
driver.findElement(By.id("secondpassword")).sendKeys(confirmpass);

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

  }
}
```

## Q3- What are the advantages of TestNG & TestNG annotations?
**Ans.**

- It gives the ability to produce HTML Reports of execution.
- Annotations made testers' life easy.
- Test cases can be Grouped & Prioritized more easily.
- Parallel testing is possible.
- Generates Logs.
- Data Parameterization is possible.

## Q4- Print the order of TestNG annotations?
**Ans.**

- BeforeSuite.
- BeforeTest.
- BeforeClass.
- BeforeMethod.

- Test.
- AfterMethod.
- AfterClass.
- AfterTest.