**Java/TestNG**

* Write a program find the second largest odd no the in string(532),(g38@);
* Explain java Pojo class testing automation framework structure/ how will it be used in Testing
* What is maven
* Write code How to read the data from Excel Table/ PPT Documents
* Vowels present in String , remove them and print the string . Variation : what if the word is “Automation” with both upper case and lower case vowels .
* Count the Occurrence of character in two different strings and then validate if the strings are equal
* Palindrome Number , variations asked with negative numbers
* Two dimensional arrays – find if number is present in array , variation – Binary Search in 2D Array
* Reverse string – testing
* Reverse sentence without changing the position of words – “this is automation testing”
* Character count using collection - “this is automation testing” ignore space and character
* Different test cases for above 3 problem statements
* We have multiple tests in our class.. and we have multiple classes as well... how we will execute certain test cases from these
* how to execute failed test cases in TestNG
* what OOP concepts were used in Testing framework
* What are all annotations present in TestNG and there execution sequence
* Optimised version of the code for the above statement
* Java code to get the Highest odd digit from String. Eg  in “52”  output should be “5”, 293 should be 9 and 24 should be 0 as no odd number there.
* Write program to Concatenate the numbers from Strings. (Scenario->Skips Alphabets, not to use inbuilt method)

Example -  String S= “C6L9B4M7Y3”

* Write program to Sort Array elements without using sort() method.

Example -  {5,3,8,3,1,7,2}

* what is loading in java.
* what is overriding and overloading and why we use the it.
* describe static method/why main method is static
* what is garbage collection.
* what is .. (dot dot) represents in a method
* What is a final keyword?
* How to prevent the Overloading and Overriding
* Super keyword in java. This keyword in java
* Java program to find the Vowel in String
* Internal working HashMap and way retrieval of records
* Difference between String.equals() and == ?
* what is a list, arraylist, linkedlist?
* Write code to create a LinkedList in Java (Need to create a custom class, not using direct LinkedList class from util package)
* How to iterate over and remove an element from collections.
* How do iterate a List using Iterator in java
* what is Object?
* explain briefly what is polymorphism in java and different types of polymorphism
* Different return type allowed in method overloading?
* I dont want my method in parent class to be overiddden in child class, how can you achieve this?
* Have you worked with collections? explain briefly which all collections you have used?
* I have web page. I tried accessing it with URL and page is not loading. How you troubleshoot this issue? How you check errors?
* Why java is independent?
* tell me oops pillars in java?
* Exception handling in java.
* tell me Exception hierarchy?
* tell me about string and how many ways to create?
* difference between equals and == method?
* tell me about static and final variable with scenario?
* Write a function that, given a string S containing lower case letters, returns the minimum number of letters that must be deleted to obtain a word in which   
  every letter occurs a unique number of times. We only care about occurrences of letters that appear at least once in result.

Examples:  
1. Given S = "aaaabbbb", a = 3, b = 4 the function should return 1. We can delete one occurrence of a or one occurrence of b. Then one letter will occur four times and the   
  other one three times.  
  
2. Given S = "ccaaffddecee", c = 1, a = 2, e = 3 the function should return 6. For example, we can delete all occurrences of e and f and one occurrence of d to obtain the word   
  "ccaadc". Note that both e and f will occur zero times in the new word, but that is fine, since we only care about letters that appear at least once.  
  
3. Given S = "eeee", the function should return 0 (there is no need to delete any characters).

4. Given S = "example", the function should return 4.

* Write a function that takes a string as parameter and returns any palindrome which can be obtained   
  by replacing all of the question marks in S by lowercase letters ('a'−'z'). If no palindrome can be obtained,   
  the function should return the string "NO".

Examples:  
1. Given S = "?ab??a", the function should return "aabbaa".  
2. Given S = "bab??a", the function should return "NO".  
3. Given S = "?a?", the function may return "aaa". It may also return "zaz", among other possible answers.

* Write out the code for this page class: [LoginPage.java](http://LoginPage.java) (<https://login.lpl.com>) (elements: username, password, and login button)
* There is a string S made of words "one" and "two" separated by single "+" and "-" signs.   
  The string represents a valid sequence of additions and subtractions of the digits 1 and 2.  
  Calculate the result of the expression represented by S.

Write a function:  
class Solution { public int solution(String S); }

that, given a string S, returns the result of the mathematical expression it represents.

Examples:  
  1. Given S = "one+two-one-one+two+one", the string represents the expression 1 + 2 − 1 − 1 + 2 + 1.   
    Its result is equal to 4. The function should return 4.  
  2. Given S = "two-two-one-two", the function should return −3.  
  3. Given S = "two", the function should return 2.

* You are given a string representing a sequence of N arrows, each pointing in one of the four cardinal directions:   
    up ('^'), down ('v'), left ('<') or right ('>').

* Write a function solution that, given a string S denoting the directions of the arrows, returns the minimum number   
  of arrows that must be rotated to make them all point in the same direction.

Examples:  
1. Given S = "^vv<v", the function should return 2. After rotating both the first ('^') and fourth ('<') arrows   
  downwards ('v'), all of the arrows would point down.  
2. Given S = "v>>>vv", the function should return 3. After rotating the first, fifth and sixth arrow rightwards,   
  all of the arrows would point right.  
3. Given S = "<<<" the function should return 0. All of the arrows already point left.

* Write a function that takes a string array and sorts it alphabetically, without using built-in sort functions Explanation of the program char[] array={c,y,z,n}; how to sort?
* list of numbers duplicates(1,1,2,2,9,9,56,7,5) remove the duplicates and  print the count of duplicates
* do you know collection? recently which collection you used in your project?
* write Java Program to Remove Duplicate Elements From the Array and sort the array?
* difference between get()and navigate().to? Get and navigate concept and asked the differences
* Alerts: explain in detail
* write an utility method which takes array of integer and returns median

i/p = {1,2,3,4,5}

o/p = 3

i/p = {2, 3, 4, 6}

o/p = 3.5

* Array programme  
  input: Array[5,-10,2,8,-15,-9,12,6]

output:[-10,-15,-9,5,2,8,12,6]

[DataTables example - Zero configuration](https://datatables.net/examples/basic_init/zero_configuration.html)

* difference between throw and throws
* what is parse exception
* what is lamba function
* write a program to print string dallas repeating and non repeating character s='dallas' output should be output1={d,s} and output2={a,l}

**TestNG**

* questions related to testNG.xml file.
* How to skip particular test cases in testNG
* What is Priority in testNG?
* What is Depends on method?
* Invocation count and threadpoolsize?
* What is parameters, groups?
* Access specifiers in java.
* Return type in methods how it works
* Explain working of main method in class
* interface vs abstract class.
* write program to find missing number in an array
* Explain java class loader.
* Difference between constructor and method.
* Can we call one constructor from another constructor.
* Runtime and compile time polymorphism. Give examples
* Annotations of testng and sequence.
* difference between suit, class and test
* Difference between css and relative locators
* How do you increase the automation suite.
* What is @before Method in TestNG
* What are failed testcases in TestNG? How to correct
* Question related to Work on Automation and TestNg used in previous Project

**API automation**

* what is the database code for API Automation?
* write automation script for API testing?
* API automation process /Explain it
* Which all different types of testing need to cover as a part of API automation
* API performance
* How you will pass dynamic data for API performance
* What is the approach you followed in API testing
* Scenarios related to API testing
* If we have Webservices scenarios how will we proceed with testing activities, RestAssured automation
* Rest assured Code
* what is API mechanism?
* have you work on scratch api testing?
* where you can check which webservice method call.
* what is hard assert and soft assert
* What challenges you are faced doing api testing  ?
* how to validate response in api automation.
* What strategy do you follow in automation.
* how will you test the rest api(what are the preconditions)
* assert conditions? how will you verify
* different status codes? API status codes and asked to explain them
* what are given , when and then?
* post request using rest assured api?

**SQL/DB**

* What is the index in sql?->
* what is the difference (BETWEEN and IN) in sql?
* which Database you know?
* Write query to self-join using one table and Two tables, Client will give scenario( Employee Table,  Manager Table)
* Write a query for max salary
* SQL Query to find the second largest value in a column
* Asked about joins, inner joins, right/ left outer joins
* how to do Database validations
* Difference between inner join and full join
* Scenarios related to data base testing
* Rename the Column in Emp Table name to ename.
* Join Query asked to write.
* Query to find the Name in Emp table starts with a
* Write SQL Query , Who employees are not associated with HR department.

Example : Employee(empid,ename,branch,emailaddress,HrId)

                   HR(HrId,HrName,HrEmailAdress,epmid)

* sql for getting second highest number from any table/ select the second highest salary from the employee table
* Write a query for unique salary from emp table?
* Write a query for colour value is red?
* Use Distinct statement
* Write code to get a connection to the database
* Write query to select employees who are under a manager.

Employee(empId,empName,salary,managerId).

Note: only one table given, needs to use self join

* write a query for second highest salary if second highest salary is not available then we have to return null?
* what is DISTINCT in SQL?
* What are the CRUD operations?
* What is difference between inner join and left join?
* sql query for 5th highest salary?

**Selenium**

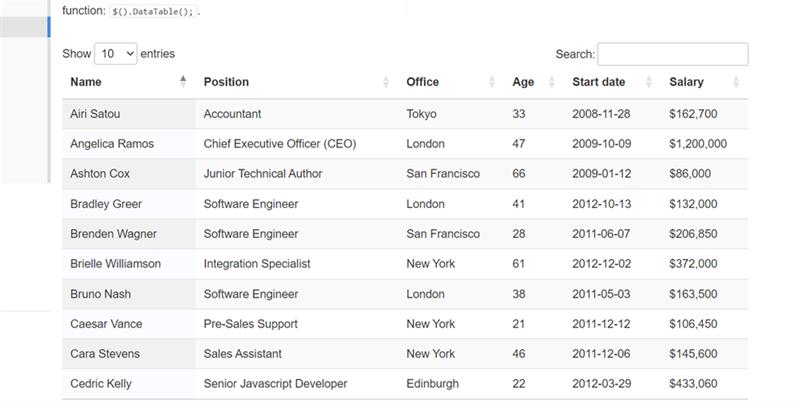
* how to write code in selenium(using Locators); Asked to write Locators for different webelements in Login webpage.
* what is locators how it find out in webpage;
* Types of Locators available in selenium.
* Write code to find third row data from the table using xpath
* Write code How to select value from drop-down list in selenium
* Describe Automation framework / What is a automation framework used?
* What are all things you have achieved and value-added  using automation
* How data is imported using DataProvider?
* Questions regarding xpath
* Explain about Test driven development framework approach.
* Types of xpaths and waits
* Explain the framework of the project
* How do you handle your test data
* Selenium Link Text client code.
* Difference between / and //.
* Selenium Screen Shot code
* Describe waits in selenium.
* What is fluent wait
* implicit wait vs explicit wait
* Scenario – There is a button on web page. Upon clicking on that button, multiple windows popping out. Every time number of windows is different.

Question - write program for validating text on one of the web page, which is coming out after multiple windows coming out after clicking on button/ How you will handle and switch between windows. Asked to write code

* Write a program for select a dropdown in a selenium? Or I have a drop-down of week days. I need to select one day. Write code to select a value from drop down?
* What is Window Handel and Window Handels in Selenium.
* Differences between Window Handel and Window Handels
* How to instantiate WebDriver/ What is WebDriverManager?
* Why you use Set<> as the return type for WindowHandles? Why not list?
* Write a code in selenium to create WebDriver instance
* What is the Difference between driver.close() and quit() method
* I have a web page which is Sales E-commerce WebSite. I came to main page with Url. I have to click on Button which will intern open another Window. New window has a Sales Table of How many cars sold and Which Brand.

For this you have write a selenium code to go to main page,click on buttion, switch to new window, then count the number of sales for the car from table.

explain the code and how switch between windows, also explain logic you have used for counting sales of car from table

* Write test scenario for login into a webpage automation in selenium?
* can we write manual path /types of xpath/ which one should be used?
* difference between findElement() and findElements()?
* how to handled window popup?
* have you done sql statement in your selenium project?
* tell me the current project structure of selenium.
* Write the LoginPage.java page class for the page located at <https://login.lpl.com> using POM design
* What are the different Webdriver APIS in selenium?
* How to click on particular webElement on webPage. write a code?
* How to find links on the webelement and print. write a code? write the code for to get the link text from the application print name of link names
* What is cross browser testing?
* What is Page object model ?
* Write code to open an URL. How to open the URL without using get method
* Write a code to file upload and download.
* Write a code to find the broken links
* Selenium exceptions.
* Explained something about UI asked few questions?
* xpath related questions//he given xpath asked to find error
* client code for xpath (given table asked to find unique for all)
* If website is not loading or page is not loading what you will do?
* your approach of testing in login page using Selenium like we use webdrivers. which oops concept is applicable here
* Saucelabs page and asked to enter username, pwd and login
* What are methods?
* explain webdriver driver = new chrome driver();?different methods
* write the code for selenium to invoke the browser?
* Actions classes in selenium
* Alerts concept in selenium
* Explain project Frame work Structure including all folders?
* Writing Xpath for datatable?get the name for Age 38 by using ,xpath with out using loop
* 

**Junit**

* how to write a script in junit give  live exmple?

**CI/CD**

* how did you achieve CICD Pipeline
* How data is being managed in batch execution
* Basic Questions regarding git
* CICD used in your previous project
* How to automate cicd process.

**Agile/Generic Testing**

* Explain to prioritize test cases
* Explain Defect life cycle
* Explain STLC life cycle
* What are the Types of meetings in Agile explain each types in details
* If any team conflict happen during agile task delivery then how to tackle those problem
* Production defect handling
* What all parameters will be considered for performance, how you get the requirement
* Describe how will you perform QA activity in the Sprint
* What is a severity and priority in terms of testing, Differences between them
* Explain about Agile methodology approach which you followed in your project.
* Complete end to end process of product sign off
* What is the goal of end to end testing
* When a story comes to your queue, what are all the activities that you do
* Types of Testing you have performed.
* How you insure are all test are completed
* Which front end technology is used in your project?
* What is scrum methodology? and what are the meetings you have attended in scrum?
* Did you work on ETL testing?
* If Data migrate then as tester what will be your test scenario?
* What is Wearhouse  data testing and data load testing
* What is Data driven testing.
* How to do resolution testing.
* Have you ever worked on BAT Testing?
* Functional & non functional elements like test cases  in login page
* Performance testing,  did you have worked previously.
* Have you created test plan and test strategy.
* Explain about bug found in previous project?

**miscellaneous**

* Did you get chance to work on AWS and Cloud ?
* What tool is used to manage central repository?
* Where you will manage test cases and bugs tracking? Explain about agile methodology and processes involved in it.
* Type of  Assertions, its syntax and difference
* different phases of git branches
* You are newly hired into a large project and have to takeover things quickly. What do you do in that case.
* API automation experience and work.