

INTERVIEW QUESTIONS BY QA IDEA

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We will add daily interview questions at the end of document

Most of the test automation interview questions are centered on the framework you develop, so it is recommended that you create and understand your test framework thoroughly. When I am interviewing, and the candidate has answered my question on the framework, I also prefer asking a language-specific question (core java in my case).

The questions start from basics of java to write the logic of some basic scenario like:

- How would you extract a set of text from a given line?
- How would you extract the URL?
- In any web page, at any frame, the number of links and its content change dynamically, how would you handle it?
- How do you handle images and flash objects?
- How do you find a word in a line?

Answers to all these test automation interview questions are very much specific to the tool/language that you are using for automating. So before you go for the interview, brush up your programming skills.

In case you did not get a chance to create your framework and someone else has created it, then make some time to understand it thoroughly before sitting for the interview.

Some tips for automation testing interviews would be:

- Know your tool thoroughly.
- Learn the locator techniques used by your tool.
- Practice programming using the language which you use for automation testing.
- Learn your framework and its components.
- It's always advantageous if you have been involved in the development of your framework. So, be thorough with the modules in the framework which you have worked on.

Hope these questions would be useful for you to prepare for a test automation interview.

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API POSTMAN INTERVIEW QUESTIONS

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1.What is Postman?

Postman is a rest client software that started as an chrome extension but is now available as native application only. Postman is basically used for API testing in which you can test your APIs with different types of request method types like post, put etc and parameters, headers and cookies. Apart from

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setting the query parameters and checking the response, postman also let us see different response stats like time, status, headers, cookies etc. with some extra excellent features that can be used with ease.

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2.What is an API?

API stands for Application Programming Interface. Talking in technical terms an API is a set of procedures, functions, and other points of access which an application, an operating system, a library etc., makes available to programmers in order to allow it to interact with other software. It can be considered as the waiter which acts as the middleman between your requests and the chef. Similarly API refers as the middleman between a client and a server. (Refer tutorial)

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3.What are some tools used for API Testing?

There are many API testing tools. The following six are the top most according to the users/downloads. These are not the rankings though.

Postman

SoapUI

Katalon Studio

Tricentis Tosca

Apigee

Jmeter

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4.In which type of encoding does postman accept authorization credentials? Why?

Postman accept authorization in Base64 encoding only. This is provided inbuilt in Postman or else you can also refer third party websites to convert the credentials in base64. We use base64 particularly because it transmits the data into textual form and send it in easier form such as HTML form data. We use Base64 particularly because we can rely on the same 64 characters in any encoding language that we use. (Refer tutorial)

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5.What is meant by the term Environment with respect to Postman?

An environment in Postman is a set of key-value pairs. You can create multiple env in postman which can be switched quickly with a press of a button. There are two types of environment, global and local. They define the scope of the variable to use it in the requests. Most commonly the variable is defined inside the environment for the same purpose. The most common variable we use is url because url is used in every requests and changing it can be very time consuming. When we create an environment inside

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Postman, we can change the value of the key value pairs and the changes are reflected in our requests. An environment just provides boundaries to variables.

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6.Can we have two global scope variables with the same name in Postman?

Since global variables are global i.e. without any environment, they cannot have duplicate names as it creates confusion for the software. Local variables can have same name but in different environments.

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7.Which one has the higher priority in Postman? A global variable or a local variable?

In Postman, if two variables have same name (one being local and one being global) then the higher priority is of the local variable. It will overwrite the global variable.

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8.Define Team workspace in Postman

A workspace is a collaborative environment for a group of users to develop and test APIs. A team workspace is a workspace which is shared by the whole team working on same collections of requests. Since it is very time consuming and hard to share the collections through external drives or other sharing means, team workspace synchronises and collaborates all the team's work at one place.

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9.Explain the following piece of test code in Postman

tests[“Status Code is 200”] = responseCode.code === 200

- tests - variable on one of type array
- Status code is 200 - A string or the test name which will be represented in the test result box so that we can know what test was it. It is important as we use many tests on one request.
- responseCode.code = responseCode is used to save all the response that we get from the server. Since we do not need complete response, we need to create one object to extract our required info. code object is then called to output the status code (like 200) from the entire response which we have saved.

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10.What is the difference between Postman Monitors and Postman Collection Runner?

The postman Monitor is an automated way of running collections. Collections are triggered automatically as per specified parameters whereas Postman Collections require some manual effort to

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start and monitor the execution. A postman collection runner runs the collection for the iterations you want to. It will be stopped when you stop the software and is not automated. A postman monitor will run your collection at regular user defined intervals till the time you have specified. Your collection will be run even if your system has shut down as it is connected through postman cloud.

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Can we import local variables in Postman Monitors?

Yes. Postman monitors allows to import local variables but it does not allow to import global variables. I believe it can be imported in json, if yes, pls mention.(Refer tutorial)

Describe any four response things you receive from a response (Correct or Incorrect)

Status Code

Response Status

Response time

Response Size

Response Headers

Response Cookies

Response Date and Time

Response Session limit

Response Cookies

Response Server

Response type

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What is a collection in Postman?

A collection in Postman can be imagined similar to a folder in your system. A collection is the grouping of requests, preferably of the similar types. It can be compared similar to the folder inside your system which has one type of files. It is one of the most vital feature of Postman and it also provides nice features such as running a whole group of request together with just one click. A collection is also important for sharing many requests at once and contains many more features which can be referred by the given link.

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Should we save our work in Postman cloud if we are working in a company? Why?

A Postman cloud is Postman company's repository like Microsoft has One Drive etc. In Postman cloud you can save your work instantly after logging in and also retrieve it from anywhere you want. It is not preferred to save your work in Postman cloud as company's work is often confidential and should not be leaked out. Postman cloud needs signing in and hence security can be compromised, therefore team workspace is preferred instead of saving the work in Postman Cloud.

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State any 5 types of Request Method types.

Get
Post
Put
Delete
Patch
Head
Delete

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Write a test code to check whether the response status is 200 or not.
A test code to check whether the response status is 200 or not is as follows

```
tests["Status Code is 200"] = responseCode.code === 200;
```

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What is the need to Monitor the collections in Postman?

It is very important that your API's responses and performance remain up to the mark throughout the day. Monitors can help you schedule a collection of test runs to monitor the performance and response of your APIs even if you are not available or not handling them. (Refer tutorial)

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Can we run monitors in Postman without Signing in?

No, monitors cannot be run without signing in because monitors run your collection even if your system is shut down. So, you need a place to store the collection and let it run automatically. You also need a place to store the reports so that you can look at them when you are free. This all needs to be saved into your postman account and hence you need to sign in. (Refer tutorial)

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What is the importance of setNextRequest in Postman?

setNextRequest in Postman is used to define the workflow. setNextRequest is needed to change the order of the requests being executed. (Refer tutorial)

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What are the two types of scripts in Postman?

We can write two types of script in Postman

Tests script

Pre-request script

(Refer tutorial)

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What is Chai Assertion Library?

Chai assertion library is an assertion library which is installed beforehand to use in Postman. This is used to write assertions in Postman which are very beneficial. Chai assertion helps us write many lines of test code in a few lines which is both understandable and readable. Chai uses BDD approach which means that chai library has codes that are more user friendly.

A simple code written in chai library which tests if number 3 is already in array or not.

```
pm.test("Number included", function(){ pm.expect([1,2,3]).to.include(3); });
```

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SELENIUM INTERVIEW QUESTIONS

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Ques 1) What are the annotations used in TestNG ?

Ans: @Test, @BeforeSuite, @AfterSuite, @BeforeTest, @AfterTest, @BeforeClass, @AfterClass, @BeforeMethod, @AfterMethod.

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Ques 2) How do you read data from excel ?

```
FileInputStream fis = new FileInputStream("path of excel file");
```

```
Workbook wb = WorkbookFactory.create(fis);
```

```
Sheet s = wb.getSheet("sheetName");
```

```
String value = s.getRow(rowNum).getCell(cellNum).getStringCellValue();
```

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Ques 3) What is the use of xpath ?

Ans- it is used to find the WebElement in web page. It is very useful to identify the dynamic web elements.

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Ques 4) What are different types of locators ?

Ans- There are 8 types of locators and all are the static methods of the By class.

By.id(), By.name(), By.tagName(), By.className(), By.linkText(), By.partialLinkText(), By.xpath, By.cssSelector().

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Ques 5) What is the difference between Assert and Verify?

Ans- Assert- it is used to verify the result. If the test case fail then it will stop the execution of the test case there itself and move the control to other test case.

Verify- it is also used to verify the result. If the test case fail then it will not stop the execution of that test case.

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Ques 6) What is the alternate way to click on login button?

Ans- use submit() method but it can be used only when attribute type=submit.

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Ques 7) How do you verify if the checkbox/radio is checked or not ?

Ans- We can use isSelected() method.

Syntax –

driver.findElement(By.xpath("xpath of the checkbox/radio button")).isSelected();

If the return value of this method is true then it is checked else it is not.

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Ques 8) How do you handle alert pop-up ?

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Ans- To handle alert pop-ups, we need to 1st switch control to alert pop-ups then click on ok or cancel then move control back to main page.

Syntax-

```
String mainPage = driver.getWindowHandle();
```

```
Alert alt = driver.switchTo().alert(); // to move control to alert popup
```

```
alt.accept(); // to click on ok.
```

```
alt.dismiss(); // to click on cancel.
```

```
//Then move the control back to main web page-
```

```
driver.switchTo().window(mainPage); → to switch back to main page.
```

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Ques 9) How do you launch IE/chrome browser?

Ans- Before launching IE or Chrome browser we need to set the System property.

//To open IE browser

```
System.setProperty("webdriver.ie.driver","path of the iedriver.exe file ");
```

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

```
//To open Chrome browser → System.setProperty("webdriver.chrome.driver","path of the  
chromeDriver.exe file ");
```

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

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Ques 10) How to perform right click using WebDriver?

Ans- Use Actions class

Actions act = new Actions(driver); // where driver is WebDriver type

```
act.moveToElement(webElement).perform();
```

```
act.contextClick().perform();
```

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Ques 11) How do perform drag and drop using WebDriver?

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Ans- Use Action class

Actions act = new Actions(driver);

WebElement source = driver.findElement(By.xpath(" ----")); //source ele which you want to drag

WebElement target = driver.findElement(By.xpath(" ----")); //target where you want to drop

act.dragAndDrop(source,target).perform();

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Ques 12) Give the example for method overload in WebDriver.

Ans- frame(string), frame(int), frame(WebElement).

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Ques 13) How do you upload a file?

Ans- To upload a file we can use sendKeys() method.

driver.findElement(By.xpath("input field")).sendKeys("path of the file which u want to upload");

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Ques 14) How do you click on a menu item in a drop down menu?

Ans- If that menu has been created by using select tag then we can use the methods selectByValue() or selectByIndex() or selectByVisibleText(). These are the methods of the Select class.

If the menu has not been created by using the select tag then we can simply find the xpath of that element and click on that to select.

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Ques 15) How do you simulate browser back and forward ?

driver.navigate().back();

driver.navigate().forward();

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Ques 16) How do you get the current page URL ?

driver.getCurrentUrl();

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Ques 17) What is the difference between '/' and '/'/?

Ans- //- it is used to search in the entire structure.

/- it is used to identify the immediate child.

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Ques 18) What is the difference between findElement and findElements?

Ans- Both methods are abstract method of WebDriver interface and used to find the WebElement in a web page.

findElement() - it used to find the one web element. It return only one WebElement type.

findElements()- it used to find more than one web element. It return List of WebElements.

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Ques 19) How do you achieve synchronization in WebDriver ?

Ans- We can use implicit wait.

Syntax- driver.manage().timeouts().implicitlyWait(10,TimeUnit.SECONDS);

Here it will wait for 10sec if while execution driver did not find the element in the page immediately. This code will attach with each and every line of the script automatically. It is not required to write every time. Just write it once after opening the browser.

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Ques 20) Write the code for Reading and Writing to Excel through Selenium ?

FileInputStream fis = new FileInputStream("path of excel file");

Workbook wb = WorkbookFactory.create(fis);

Sheet s = wb.getSheet("sheetName");

String value = s.getRow(rowNum).getCell(cellNum).getStringCellValue(); // read data

s.getRow(rowNum).getCell(cellNum).setCellValue("value to be set"); //write data

FileOutputStream fos = new FileOutputStream("path of file");

wb.write(fos); //save file

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Ques 21) How to get typed text from a textbox ?

Ans- use `getAttribute("value")` method by passing arg as value.

String typedText = driver.findElement(By.xpath("xpath of box")).getAttribute("value");

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Ques 22) What are the different exceptions you got when working with WebDriver ?

Ans- `ElementNotVisibleException`, `ElementNotSelectableException`, `NoAlertPresentException`, `NoSuchAttributeException`, `NoSuchWindowException`, `TimeoutException`, `WebDriverException` etc.

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Ques 23) What are the languages supported by WebDriver ?

Ans- Python, Ruby, C# and Java are all supported directly by the development team. There are also webdriver implementations for PHP and Perl.

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Ques 24) How do you clear the contents of a textbox in selenium ?

Ans- Use `clear()` method.

`driver.findElement(By.xpath("xpath of box")).clear();`

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Ques 25) What is a Framework ?

Ans- A framework is set of automation guidelines which help in

Maintaining consistency of Testing, Improves test structuring, Minimum usage of code, Less

Maintenance of code, Improve re-usability, Non Technical testers can be involved in code, Training period

of using the tool can be reduced, Involves Data wherever appropriate.

There are five types of framework used in software automation testing:

1-Data Driven Automation Framework

2-Method Driven Automation Framework

3-Modular Automation Framework

4-Keyword Driven Automation Framework

5-Hybrid Automation Framework , its basically combination of different frameworks. (1+2+3).

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Ques 26) What are the prerequisites to run selenium webdriver?

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Ans- JDK, Eclipse, WebDriver(selenium standalone jar file), browser, application to be tested.

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Ques 27) What are the advantages of selenium webdriver?

Ans- a) It supports with most of the browsers like Firefox, IE, Chrome, Safari, Opera etc.

b) It supports with most of the language like Java, Python, Ruby, C# etc.

b) Doesn't require to start server before executing the test script.

c) It has actual core API which has binding in a range of languages.

d) It supports of moving mouse cursors.

e) It support to test iphone/Android applications.

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Ques 28) What is WebDriverBackedSelenium ?

Ans- WebDriverBackedSelenium is a kind of class name where we can create an object for it as below:

Selenium webdriver= new WebDriverBackedSelenium(WebDriver object name, "URL path of website")

The main use of this is when we want to write code using both WebDriver and Selenium RC , we must use above created object to use selenium commands.

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Ques 29) How to invoke an application in webdriver ?

driver.get("url"); or driver.navigate().to("url");

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Ques 30) What is Selenium Grid ?

Ans- Selenium-Grid allows you to run your tests on different machines against different browsers in parallel. That is, running multiple tests at the same time against different machines, different browsers and operating systems. Essentially, Selenium-Grid support distributed test execution. It allows for running your tests in a distributed test execution environment.

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Ques 31) How to get the number of frames on a page ?

List <WebElement> framesList = driver.findElements(By.xpath("//iframe"));

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```
int numOfFrames = frameList.size();
```

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Ques 32) How do you simulate scroll down action ?

Ans- Use java script to scroll down-

JavascriptExecutor jsx = (JavascriptExecutor)driver;

jsx.executeScript("window.scrollTo(0,4500)", ""); //scroll down, value 4500 you can change as per your req

jsx.executeScript("window.scrollTo(450,0)", ""); //scroll up

ex-

```
public class ScrollDown {
```

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

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

```
driver.manage().timeouts().implicitlyWait(10, TimeUnit.SECONDS);
```

```
driver.get("https://www.flipkart.com/womens-clothing/pr?sid=2oq,c1r&otracker=hp_nmenu_sub_women_1_View%20all");
```

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

```
JavascriptExecutor jsx = (JavascriptExecutor)driver;
```

```
jsx.executeScript("window.scrollTo(0,4500)", ""); //scroll down
```

```
Thread.sleep(3000);
```

```
jsx.executeScript("window.scrollTo(450,0)", ""); //scroll up
```

```
}
```

```
}
```

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Ques 33) What is the command line we have to write inside a .bat file to execute a selenium project when we are using testng ?

Ans- java -cp bin;jars/* org.testng.TestNG testng.xml

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Ques 34) Which is the package which is to be imported while working with WebDriver ?

Ans- org.openqa.selenium

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Ques 35) How to check if an element is visible on the web page ?

Ans- use isDisplayed() method. The return type of the method is boolean. So if it return true then element is visible else not visible.

driver.findElement(By.xpath("xpath of elemnt")).isDisplayed();

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Ques 36) How to check if a button is enabled on the page ?

Ans- Use isEnabled() method. The return type of the method is boolean. So if it return true then button is enabled else not enabled.

driver.findElement(By.xpath("xpath of button")).isEnabled();

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Ques 37) How to check if a text is highlighted on the page ?

Ans- To identify weather color for a field is different or not-

String color = driver.findElement(By.xpath("//a[text()='Shop']")).getCssValue("color");

String backcolor = driver.findElement(By.xpath("//a[text()='Shop']")).getCssValue("background-color");

System.out.println(color);

System.out.println(backcolor);

Here if both color and back color different then that means that element is in different color.

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Ques 38) How to check the checkbox or radio button is selected ?

Ans- Use isSelected() method to identify. The return type of the method is boolean. So if it return true then button is selected else not enabled.

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```
driver.findElement(By.xpath("xpath of button")).isSelected();
```

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Ques 39) How to get the title of the page ?

Ans- Use getTitle() method.

Syntax- driver.getTitle();

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Ques 40) How do u get the width of the textbox ?

```
driver.findElement(By.xpath("xpath of textbox")).getSize().getWidth();
```

```
driver.findElement(By.xpath("xpath of textbox")).getSize().getHeight();
```

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Ques 41) How do u get the attribute of the web element ?

Ans- driver.findElement(By.tagName("img")).getAttribute("src") will give you the src attribute of this tag. Similarly, you can get the values of attributes such as title, alt etc.

Similarly you can get CSS properties of any tag by using getCssValue("some property name").

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Ques 42) How to check whether a text is underlined or not ?

Ans- Identify by getCssValue("border-bottom") or sometime getCssValue("text-decoration") method if the

cssValue is 'underline' for that WebElement or not.

ex- This is for when moving cursor over element that is going to be underlined or not-

```
public class UnderLine {
```

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

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

```
driver.manage().timeouts().implicitlyWait(10, TimeUnit.SECONDS);
```

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```
driver.get("https://www.google.co.in/?gfe_rd=ctrl&ei=bXAwU8jYN4W6iAf8zIDgDA&gws_rd=cr");

String cssValue= driver.findElement(By.xpath("//a[text()='Hindi']")).getCssValue("text-decoration");

System.out.println("value"+cssValue);

Actions act = new Actions(driver);

act.moveToElement(driver.findElement(By.xpath("//a[text()='Hindi']"))).perform();

String cssValue1= driver.findElement(By.xpath("//a[text()='Hindi']")).getCssValue("text-decoration");

System.out.println("value over"+cssValue1);

driver.close();

}

}
```

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Ques 43) How to change the URL on a webpage using selenium web driver ?

```
driver.get("url1");
```

```
driver.get("url2");
```

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Ques 44) How to hover the mouse on an element ?

```
Actions act = new Actions(driver);
```

```
act.moveToElement(webelement); //webelement on which you want to move cursor
```

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Ques 45) What is the use of getOptions() method ?

Ans- getOptions() is used to get the selected option from the dropdown list.

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Ques 46) What is the use of deSelectAll() method ?

Ans- It is used to deselect all the options which have been selected from the dropdown list.

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Ques 47) Is WebElement an interface or a class ?

Ans- WebDriver is an Interface.

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Ques 48) FirefoxDriver is class or an interface and from where is it inherited ?

Ans- FirefoxDriver is a class. It implements all the methods of WebDriver interface.

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Ques 49) Which is the super interface of webdriver ?

Ans- SearchContext.

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Ques 50) What is the difference b/w close() and quit()?

Ans- close() - it will close the browser where the control is.

quit() - it will close all the browsers opened by WebDriver.

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Ques 1) Can we enter text without using sendKeys() ?

Ans - Yes we can enter text without using sendKeys() method. We have to use combination of javascript and wrapper classes with WebDriver extension class, check the below code-

public static void setAttribute(WebElement element, String attributeName, String value)

```
{  
  
    WrapsDriver wrappedElement = (WrapsDriver) element;  
  
    JavascriptExecutor driver = (JavascriptExecutor)wrappedElement.getWrappedDriver();  
  
    driver.executeScript("arguments[0].setAttribute(arguments[1],arguments[2])", element,  
attributeName, value);  
  
}
```

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call the above method in the test script and pass the text field attribute and pass the text you want to enter.

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Ques 2) There is a scenario whenever "Assert.assertEquals()" function fails automatically it has to take screenshot. How can you achieve this ?

Ans- By using EventFiringWebDriver.

Syntax-EventFiringWebDriver eDriver=new EventFiringWebDriver(driver);

File srcFile = eDriver.getScreenshotAs(OutputType.FILE);

FileUtils.copyFile(srcFile, new File(imgPath));

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Ques 3) How do you handle https website in selenium ?

Ans- By changing the setting of FirefoxProfile.

Syntax-public class HTTPSSecuredConnection {

public static void main(String[] args){

FirefoxProfile profile = new FirefoxProfile();

profile.setAcceptUntrustedCertificates(false);

WebDriver driver = new FirefoxDriver(profile);

driver.get("url");

}

}

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Ques 4) How to login into any site if its showing any authentication popup for user name and pass ?

Ans - pass the username and password with url.

Syntax- http://username:password@url

ex- http://creyate:jamesbond007@alpha.creyate.com

Ques 5) What is the name of Headless browser.

Ans- HtmlUnitDriver.

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Ques 6) Open a browser in memory means whenever it will try to open a browser the browser page must not come and can perform the operation internally.

Ans- use HtmlUnitDriver.

ex-

```
public class Memory {  
  
    public static void main(String[] args) {  
  
        HtmlUnitDriver driver = new HtmlUnitDriver(true);  
  
        driver.setJavascriptEnabled(false);  
  
        driver.manage().timeouts().implicitlyWait(10, TimeUnit.SECONDS);  
  
        driver.get("https://www.google.co.in/");  
  
        System.out.println(driver.getTitle());  
  
    }  
  
}
```

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Ques 7) What are the benefits of using TestNG ?

Ans-

- a) TestNG allows us to execute of test cases based on group.
- b) In TestNG Annotations are easy to understand.
- c) Parallel execution of Selenium test cases is possible in TestNG.
- d) Three kinds of report generated
- e) Order of execution can be changed
- f) Failed test cases can be executed
- g) Without having main function we can execute the test method.
- h) An xml file can be generated to execute the entire test suite. In that xml file we can rearrange our execution order and we can also skip the execution of particular test case.

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Ques 8) How do you take screen shot without using EventFiringWebDriver ?

Ans-

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File srcFile = ((TakeScreenshot)driver).getScreenshotAs(OutputType.FILE); //now we can do anything with this screenshot

like copy this to any folder-

```
FileUtils.copyFile(srcFile,new File("folder name where u want to copy/file_name.png"));
```

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Ques 9) How do you send ENTER/TAB keys in WebDriver ?

Ans- use click() or submit() [submit() can be used only when type='submit']] method for ENTER. Or use Actions class to press keys.

For Enter-

```
act.sendKeys(Keys.RETURN);
```

For Tab-

```
act.sendKeys(Keys.ENTER);
```

where act is Actions class type. (Actions act = new Actions(driver);)

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Ques 10) What is Datadriven framework & Keyword Driven ?

Ans- Datadriven framework- In this Framework , while Test case logic resides in Test Scripts, the Test Data is separated and kept outside the Test Scripts. Test Data is read from the external files (Excel File) and are loaded into the variables inside the Test Script. Variables are used both for Input values and for Verification values.

Keyword Driven framework- The Keyword-Driven or Table-Driven framework requires the development of data tables and keywords, independent of the test automation tool used to execute them . Tests can be designed with or without the Application. In a keyword-driven test, the functionality of the application-under-test is documented in a table as well as in step-by-step instructions for each test.

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Ques 11) While explaining the framework, what are points which should be covered ?

Ans-

- What is the frame work.
- Which frame work you are using.
- Why This Frame work.
- Architecture.
- Explanation of every component of frame work.
- Process followed in frame work.
- How & when u execute the frame work.
- Code (u must write code and explain).
- Result and reporting .

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j) You should be able to explain it for 20 Minutes.

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Ques 12) How to switch back from a frame ?

Ans- use method defaultContent().

Syntax – driver.switchTo().defaultContent();

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Ques 13) How to type text in a new line inside a text area ?

Ans- Use \n for new line.

ex- webelement.sendKeys("Sanjay_Line1.\n Sanjay_Line2.");

it will type in text box as-

Sanjay_Line1.

Sanjay_Line2.

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Ques 14) What is the use of Autolt tool ?

Ans- Some times while doing testing with selenium, we get stuck by some interruptions like a window based pop up. But selenium fails to handle this as it has support for only web based application. To overcome this problem we need to use AutoIT along with selenium script. AutoIT is a third party tool to handle window based applications. The scripting language used is in VBScript.

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Ques 15) How to perform double click using WebDriver ?

Ans- use doubleClick() method.

Syntax- Actions act = new Actions(driver);

act.doubleClick(webelement);

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Ques 16) How to press Shift+Tab ?

Ans-

String press = Keys.chord(Keys.SHIFT,Keys.ENTER);

webelement.sendKeys(press);

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Ques 17) What is the use of contextClick() ?

Ans- It is used to right click.

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Ques 18) What is the difference b/w getWindowHandles() and getWindowHandle() ?

Ans- getWindowHandles()- is used to get the address of all the open browser and its return type is Iterator<String>.

getWindowHandle()- is used to get the address of the current browser where the control is and return type is String.

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Ques 19) How do you accommodate project specific methods in your framework ?

Ans- 1st go through all the manual test cases and identify the steps which are repeating. Note down such steps and make them as methods and write into ProjectSpecificLibrary.

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Ques 20) What are different components of your framework ?

Ans- Library- Assertion, ConfigLibrary, GenericLibrary, ProjectSpecificLibrary, Modules.
Drivers folder, Jars folder, excel file.

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Ques 21) What are the browsers supported by Selenium IDE ?

Ans- Mozilla FireFox only. Its an Firefox add on.

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Ques 22) What are the limitations of Selenium IDE ?

Ans-

a) It does not supports looping or conditional statements. Tester has to use native languages to write logic in the test case.

b) It does not supports test reporting, you have to use selenium RC with some external reporting plugin like TestNG or JUnit to get test execution report.

c) Error handling is also not supported depending on the native language for this.

d) Only support in Mozilla FireFox only. Its an Firefox add on.

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Ques 23) How to check all checkboxes in a page ?

Ans-

```
List<webElement> chkBox = driver.findElements(By.xpath("//htmltag[@attbute='checkbox']"));
```

```
for(int i=0; i<=chkBox.size(); i++){
```

```
chkBox.get(i).click();
```

```
}
```

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Ques 24) Count the number of links in a page.

Ans- use the locator By.tagName and find the elements for the tag //a then use loop to count the number of elements found.

Syntax- int count = 0;

```
List<webElement> link = driver.findElements(By.tagName("a"));
```

```
System.out.println(link.size()); // this will print the number of links in a page.
```

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Ques 25) How do you identify the Xpath of element on your browser ? And- to find the xpath , we use Firebug addons on firefox browser and to identify the xpath written we use Firepath addons.

Syntax- //htmltag[@attname='attvalue'] or //html[text()='textvalue'] or

//htmltag[contains(text(),'textvalue')] or //htmltag[contains(@attname,'attvalue')]

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Ques 26) What is Selenium Webdriver ?

Ans- WebDriver is the name of the key interface against which tests should be written in Java. All the methods of WebDriver have been implemented by RemoteWebDriver.

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Ques 27) What is Selenium IDE ?

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Ans- Selenium IDE is a complete integrated development environment (IDE) for Selenium tests. It is implemented as a Firefox Add-On, and allows recording, editing, and debugging tests. It was previously known as Selenium Recorder.

Scripts may be automatically recorded and edited manually providing autocompletion support and the ability to move commands around quickly.

Scripts are recorded in Selenese, a special test scripting language for Selenium. Selenese provides commands for performing actions in a browser (click a link, select an option), and for retrieving data from the resulting pages.

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Ques 28) What are the flavors of selenium ?

Ans- selenium IDE, selenium RC, Selenium WebDriver and Selenium Grid.

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Ques 29) What is selenium ?

Ans- Its an open source Web Automation Tool. It supports all types of web browsers. Despite being open source its actively developed and supported.

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Ques 30) Advantages of selenium over other tools ?

Ans-

- a) Its free of cost,
- b) it supports many languages like Java, C#, Ruby, Python etc.,
- c) it allows simple and powerful DOM-level testing etc.

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Ques 31) What is main difference between RC and webdriver ?

Ans- Selenium RC injects javascript function into browsers when the web page is loaded.

Selenium WebDriver drives the browser using browser's built-in support.

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Ques 32) Why you choose webdriver over RC ?

Ans-

- a) Native automation faster and a little less prone to error and browser configuration,
- b) Does not Requires Selenium-RC Server to be running
- c) Access to headless HTMLUnitDriver can allow really fast tests
- d) Great API etc.

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Ques 33) Which one is better xpath or CSS ?

Ans- xpath.

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Ques 34) How will you handle dynamic elements ?

Ans- By writing relative xpath.

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Ques 35) what are the different assertions or check points used in your script ?

Ans- The common types of validations are:

- a) Is the page title as expected,
 - b) Validations against an element on the page,
 - c) Does text exist on the page,
 - d) Does a javascript call return an expected value.
- method used for validation – Assert.assertEquals();

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Ques 36) What is actions class in WebDriver ?

Ans- Actions class is used to control the actions of a mouse.

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Ques 37) What is the difference between @BeforeMethod and @BeforeClass ?

Ans- @BeforeMethod- this will execute before every @Test method.

@BeforeClass- this will execute before every class.

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Ques 38) What are the different attributes for @Test annotation ?

Ans- alwaysRun, dataProvider, dependsOnMethods, enabled, expectedExceptions, timeout etc.

ex- @Test(expectedExceptions = ArithmeticException.class)

@Test(timeout = 2000)

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Ques 39) Can we run group of test cases using TestNG ?

Ans- yes.

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Ques 40) What is object repository ?

Ans- An object repository is a very essential entity in any UI automation tool. A repository allows a tester to store all the objects that will be used in the scripts in one or more centralized locations rather than letting them be scattered all over the test scripts. The concept of an object repository is not tied to WET alone. It can be used for any UI test automation. In fact, the original reason why the concept of object repositories were introduced was for a framework required by QTP.

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Ques 41) What are oops concepts ?

Ans-

- a) Encapsulation,
- b) Abstraction,
- c) Polymorphism,
- d) Inheritance.

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Ques 42) What is inheritance ?

Ans- Inherit the feature of any class by making some relations between the class/interface is known as inheritance.

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Ques 43) What is difference between overload and override ?

Ans- The methods by passing different arguments list/type is known as overloading of methods while having the same method signature with different method body is known as method overriding.

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Ques 44) Does java supports multiple inheritance ?

Ans- Interface supports multiple inheritance but class does not support.

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Ques 45) Write a java program for swapping of two numbers ?

Ans-

```
public class Swapping{

    public static void main(String[] args){

        Scanner in = new Scanner(System.in);

        System.out.println("enter the 1st num");

        int a = in.nextInt();

        System.out.println("enter the 2nd num");

        int b = in.nextInt();

        System.out.println("before swapping a="+a+" and b= "+b);

        int x = a;

        a = b;

        b = x;

        System.out.println("After swapping a="+a+" and b= "+b);

    }

}
```

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Ques 46) Write a java program for factorial of a given number.

Ans-

```
public class Factorial {

    public static void main(String args[]){

        Scanner in = new Scanner(System.in);

        System.out.println("enter the num for which u want the factorial");
```

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```
int num = in.nextInt();

for(int i=num-1; i>0; i-- ){

num = num*i;

}

System.out.println(num);

}

}
```

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Ques 47) What are the different access specifiers in Java?

Ans- private, default, protected and public.

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Ques 48) Why do we go for automation testing ?

Ans- Reasons-

- a) Manual testing of all work flows, all fields, all negative scenarios is time and cost consuming.
- b) It is difficult to test for multi lingual sites manually.
- c) Automation does not require human intervention. We can run automated test unattended(Overnight).
- d) Automation increases speed of test execution.
- e) Automation helps increase test coverage.
- f) Manual testing can become boring and hence error prone.

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Ques 49) What is testing strategy ?

Ans- A Test Strategy document is a high level document and normally developed by project manager. This document defines “Software Testing Approach” to achieve testing objectives. The Test Strategy is normally derived from the Business Requirement Specification document.

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Ques 50)) write a code to make use of assert if my username is incorrect.

Ans-

```
try{
```

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```
Assert.assertEquals(expUserName, actUserName);

}catch(Exception e){

System.out.println("name is invalid");

}
```

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TESTNG INTERVIEW QUESTIONS

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1. What is the TestNG Framework?

TestNG framework is a testing framework to perform tests in the java programming language. Moreover, the "NG" in TestNG abbreviates for "Next Generation". Cedric Beust developed it and inspired by the JUnit and NUnit testing framework. Subsequently, you can learn What is TestNG Framework in detail, [here](#).

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2. How do you run the TestNG script?

TestNG script is run by right-click on the TestNG class -> Run As -> TestNG Test. Subsequently, learn [How To Install TestNG In Eclipse And IntelliJ](#).

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3. What are the advantages of TestNG?

One of the common TestNG interview questions is about the advantages of TestNG.

TestNG has the following advantages:

- Firstly, TestNG is capable of producing reports automatically with all the necessary information such as failed tests, passed tests, test execution times, etc.
- Secondly, TestNG makes use of annotations such as `@BeforeMethod`, `@Test`, etc., which are easily understandable as their naming is after their working.
- Thirdly, TestNG provides a grouping of methods by which we can group multiple methods as one unit. In other words, Grouping performs operations on all the tests in a group at once rather than individually.
- Fourthly, TestNG provides a test method parameterization, which means we can provide parameters in the TestNG and call the function repeatedly with different values. Moreover, parameterization helps in data-driven testing in TestNG.

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- Fifthly, TestNG provides the prioritization of methods. In other words, by defining the priorities of the methods in TestNG, we can alter the default execution sequence of the test methods according to our wish.
- In addition to the above, TestNG allows parallel testing, which increases efficiency and improves the overall running time of test methods.
- With the TestNG framework, you can easily integrate with other tools such as Maven, Jenkins, etc.
- Moreover, TestNG provides a feature to run multiple [test methods on various browsers](#) to test for cross-browser compatibility issues on your website. It is [cross-browser testing](#).
- Additionally, TestNG allows us to run the tests separately. So, if you run the tests and only one test failed, you can run this test independently in the next execution.
- Moreover, TestNG allows the test methods to depend on each other. Its also called Test Dependency in TestNG.
- Lastly, TestNG provides a bunch of assertion methods for testing more efficiently.

Subsequently, you can learn more about the benefits of the TestNG framework [here](#).

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TestNG Test Case And Suites

4. What is the difference between a TestNG test and a TestNG test suite?

TestNG test suite refers to a collection of tests that we can run simultaneously with the help of the TestNG XML file. On the other side, a TestNG test is a single test case file, and when we say "we are running a TestNG test case", we simply mean we are running a single test case file. [Learn more about TestNG Test Suite](#).

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5. Define the correct order of tags in the TestNG XML file.

The correct order followed to run the TestNG suite from the XML file is as follows:

```
<suite>
  <test>
    <classes>
    <class>
  <methods>
```

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Q #5) How do you identify the test cases which are suitable for automation?

Answer: Identifying the appropriate test cases for automation is the most important step towards automation.

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Q #6) Can you achieve 100% automation?

Answer: 100% automation would be difficult to achieve because there would be many edge test cases and some cases that are executed seldom. Automating these cases which are not executed that often will not add value to the automated suite.

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Q #7) How to decide the tool that one should use for Automation testing in their projects?

Answer: In order to identify the tool for Automation testing in your project:

- a) Understand your project requirements thoroughly and identify the testing scenarios that you want to automate.
- b) Search for the list of tools that support your project's requirements.
- c) Identify your budget for the automation tool. Select the tools within your budget.
- d) Identify if you already have skilled resources for the tools. If you don't have the necessary skilled resources then identify the cost for [training the existing resources](#) or hiring new resources.
- e) Now compare each tool for key criteria like:
 - How easy is it to develop and maintain the scripts for the tool?
 - Can a non-technical person also execute the test cases with little training?
 - Does the tool support different types of platforms like web, mobile, desktop, etc based on your project requirements?
 - Does the tool have a test reporting functionality? If not, is it easily configurable for the tool?
 - How is the tool for cross-browser support for web-based applications?
 - How many different testing types can this tool support?
 - How many languages does the tool support?
- f) Once you have compared the tools, select the tool which is within your budget and support your project requirements, and gives you more advantages based on the key criteria mentioned above.

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Q #8) Currently I do not have any automation in place in my project, but now I want to implement automation, what would be my steps?

Answer:

- First, identify which type of testing/test cases you want to automate.
- Identify the tool
- Design the framework
- Create utility files and environment files.
- Start scripting
- Identify and work on reporting.
- Allocating time for enhancing and maintaining the scripts.

Steps required for getting Automation Testing in place for a project include:

- Understand the advantages and disadvantages of automation testing and identify the test scenarios which are suitable for automation.
- Select the automation tool that is best suited for automating the identified scenarios
- Find the tool expert to help in setting up the tool and required environment for executing the test cases using the tool.

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- Train the team so that they can write scripts in the programming language that the tool supports.
- Create the test framework or identify the already existing one that meets your requirements.
- Write an execution plan for OS, browsers, mobile devices, etc.
- Write programming scripts for manual test cases to convert them into automated test cases.
- Report the test case status by using the reporting feature of the tool.
- Maintain the scripts for ongoing changes or new features.

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Q #9) How do you decide which tool you have to use?

Answer: Concluding [which tool is best suitable](#) for the project requires a lot of brainstorming and discussions.

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Q #10) Once you identify the tool what would be your next steps?

Answer: Once we finalize the tool, our next step would be to design the framework.

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Q #11) What is a framework?

Answer: A framework is a set of the structure of the entire automation suite. It is also a guideline, which if followed can result in a structure that is easy to maintain and enhance.

These guidelines include:

- Coding standards
- Handling the test data
- Maintaining and handling the elements (object repository in QTP)
- Handling of environment files and properties file
- Reporting of data
- Handling logs
-

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Q #12) What are the attributes of a good framework?

Answer: The characteristics include:

- Modular: The framework should be adaptable to change. Testers should be able to modify the scripts as per the environment or login information change.
- Reusable: The commonly used methods or utilities should be written in a common file that is accessible to all the scripts.
- Consistent: The suite should be written in a consistent format by following all the accepted coding practices.

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- Independent: The scripts should be written in such a way that they are independent of each other. In case one test fails, it should not hold back the remaining test cases (unless it is a login page)
- Logger: It is good to have implemented the logging feature in the framework. This would help in case our scripts run for longer hours (say nightly mode), if the script fails at any point of time, having the log file will help us to detect the location along with the type of the error.
- Reporting: It is good to have the reporting feature automatically embedded into the framework. Once the scripting is done, we can have the results and reports sent via email.
- Integration: Automation Framework should be such that it is easy to integrate with other applications like continuous integration or triggering the automated script as soon as the build is deployed.

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Q #13) Can you do without a framework?

Answer: Frameworks are guidelines and not mandatory rules, so we can do without a framework, but if we create it and follow it, enhancing and maintaining would be easy to implement.

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Q #14) What are the different types of the Automation tool that you are aware of?

Answer: Open source tool like Selenium, JMeter, etc.

Paid tools like QTP, Load Runner, Ranorex, RFT, and Rational Robot.

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Q #15) What generally is the structure of a framework?

Answer: Normally the structure should have – (It would differ from project to project)

- A “src” (source) folder having the actual test scripts.
- A “lib” (library) folder having all the libraries and common methods.
- A “class” folder having all the class file (in-case using java).
- A “log” folder having the log file(s).
- A file/folder having all the web element Ids.
- A file containing the URL, environment and login information.

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Q #16) Where will you maintain information like URL, login, password?

Answer: This information should always be maintained in a separate file.

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Q #17) Why do you want to keep this kind of information in a separate file and not directly in the code?

Answer: URL, Login, and passwords are the kind of fields that are used very often and these change as per the environment and authorization. In case we hardcode it into our code, we have to change it in every file which has its reference.

In case if there are more than 100 files, then it becomes very difficult to change all the 100 files and this, in turn, can lead to errors. So this kind of information is maintained in a separate file so that updating becomes easy.

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Q #18) What are the different types of frameworks?

Answer: Different types of frameworks includes:

- Keyword-driven framework
- Data-Driven framework
- Hybrid Framework
- Linear Scripting

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Q #19) Can you tell some good coding practices while automation?

Answer: Some of the good coding practices include:

- Add appropriate comments.
- Identify the reusable methods and write it in a separate file.
- Follow the language-specific coding conventions.
- Maintain the test data in a separate file.
- Run your scripts regularly.

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Q #20) Any kind of test which you think should not be automated?

Answer:

- Tests that are seldom executed.
- Exploratory testing
- Usability testing
- Test which is executed quickly when done manually.

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Q #21) Do you think that testing can be done only at the UI level?

Answer: Today as we are moving to the Agile mode, testing is not limited to the UI layer. Early feedback is imperial for an agile project. If we concentrate only on the UI layer, we are actually waiting until the UI is developed and available to test.

Rather we can test even before the UI is actually developed. We can directly test the APIs or the methods using tools like Cucumber and [FitNesse](#).

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In this way, we are giving the feedback much early and are testing even before the UI is developed. Following this approach will help us to test only the GUI aspect of small cosmetic changes or some validations on the UI and will help the developers by giving more time to fix the bugs.

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Q #22) How do you select which automation tool is best suited for you?

Answer: Selecting the automation tool depends upon various factors like:

- The scope of the application which we want to automate.
- Management overhead like cost and budget.
- Time to learn and implement the tool.
- Type of support available for the tool.
- Limitation of the tool

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Q #23) What do you think holds the testers back to do automation? Is there a way to overcome it?

Answer: The major hurdle for testers is to learn programming/coding when they want to automate. Since testers do not code, adapting to coding is a bit challenging for testers.

We can overcome it by:

- Collaborating with developers when automating.
- Considering that automation is the responsibility of the whole team and not only of the testers.
- Giving a dedicated time and focus on automation.
- Getting proper management support.

You can save these automation testing interview questions as a pdf and print for further reading.

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Q #24) What is an Automation testing framework?

Answer: A framework, in general, is a set of guidelines. A set of guidelines, assumptions, concepts and coding practices for creating an execution environment in which the tests will be automated, is known as an Automation testing framework.

An automation testing framework is responsible for creating a test harness with a mechanism to connect with the application under test, take input from a file, execute the test cases and generate the reports for test execution. An automation testing framework should be independent of the application and it should be easy to use, modify or extend.

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Q #25) What are the important modules of an automation testing framework?

Answer: Important modules of an Automation testing framework are:

1. Test Assertion Tool: This tool will provide assert statements for testing the expected values in the application under test. For Example. TestNG, Junit, etc.

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2. Data Setup: Each test case needs to take the user data either from the database or from a file or embedded in the test script. Frameworks data module should take care of the data intake for test scripts and the global variables.
3. Build Management Tool: Framework needs to be built and deployed for the use of creating test scripts.
4. Continuous integration tool: With CICD (Continuous Integration and Continuous Development) in place, continuous integration tool is required for integrating and deploying the changes done in the framework at each iteration.
5. Reporting tool: A reporting tool is required to generate a readable report after the test cases are executed for a better view of the steps, results, and failures.
6. Logging tool: The logging tool in framework helps in better debugging of the error and bugs.

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Q #28) When do you prefer Manual testing over Automation testing?

Answer: We prefer manual testing over automation testing in the following cases:

- The project is short-term and writing scripts will be time-consuming and costly when compared to manual testing.
- Flexibility is required. Automated test cases are programmed and run in a specific way of configurations.
- Usability testing needs to be performed.
- Applications/module is newly developed and has no previous test cases.
- Ad-hoc or exploratory testing needs to be performed.

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Q #29) Is Automation testing in agile Methodology useful or not?

Answer: Automation testing is useful for regression, smoke or sanity testing. All these types of testing in the traditional waterfall model happen at the end of the cycle and sometimes if there are not many enhancements to the application, we might not even have to do [regression testing](#).

Whereas, in [agile methodology](#), every iteration requires executing the regression test case as some new functionalities is added.

Also, the regression suite itself keeps growing after each sprint as the functional test cases of the current sprint module need to be added to the regression suite for the next sprint.

Thus, Automation testing in agile methodology is very useful and helps in achieving maximum test coverage in less time of the sprint.

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Q #30) List some advantages and disadvantages of Automation testing.

Answer:

Advantages:

- Fewer human resources
- Reusability

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- More Test Coverage in less time
- Reliability
- Parallel execution of test cases
- Fast

Disadvantages:

- Development and maintenance time is more.
- Tool Cost
- Skilled resources are required.
- Environment setup
- Test Script debugging is an issue.

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Q #31) List some advantages and disadvantages of Manual testing.

Answer:

Advantages:

- No environment setup needed.
- Programming knowledge is not required.
- Recommended for dynamically changing requirements.
- Allow human observation power to detect more bugs.
- The cost is less for short-term projects.
- Flexibility

Disadvantages:

- Difficult to perform complex calculations.
- Reusability
- Time taking
- High risk of human errors or mistakes.
- More human resources are required.

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Q #32) Can we do Automation testing without a framework? If yes, then why do we need a framework?

Answer: Yes, We can perform automation testing even without using a framework. We can just understand the tool that we are using for automation and program the steps in the programming language that tools support.

If we automate test cases without a framework then there won't be any consistency in the programming scripts for test cases.

A framework is required to give a set of guidelines that everyone has to follow to have maintained readability, reusability, and consistency in the test scripts. A framework also provides one common ground for reporting and logging functionality.

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Q #33) How will you automate basic "login" functionality test cases for an application?

Answer: Assuming that the automation tool and framework is already in place of the test environment.

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To test the basic “Login” functionality:

- Understand the project requirement: Login functionality will have a username textbox, a password textbox, and a login button.
- Identify the Test scenarios: For login functionality, the possible test scenarios are:
 - Blank username and password
 - Invalid username and password
 - A valid username and invalid password
 - Valid username and password
- Prepare a Data input file with the data corresponding to each scenario.
- Launch the tool from the program.
- Identify the username field, password field, and the login button.
- For each test scenario, get the data from the data file and enter into the corresponding fields. Program click on the login button after entering the data.
- Validate the error message for negative scenarios and the success message for positive scenarios in the test script with the help of assertions.
- Run the test suite and generate the report.

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Q #34) Is Automation testing a Black box testing or White-box testing?

Answer: Automation testing is mostly a [black box testing](#) as we just program the steps that a manual tester performs for application under test without knowing the low-level design or code of the application.

Sometimes, automated test scripts need access to the database details that are used in the application under test or some more coding details and thus can be a type of white-box testing.

Thus automated testing can be both black or white box type of testing depending on the scenarios in which automation is performed.

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Q #35) How many test cases have you automated per day?

Answer: Well, the number depends on the complexity of the test cases. When the complexity was limited, I was able to automate 5 to 6 test cases per day. Sometimes, I was able to automate only one test case for complex scenarios.

I have also broken down my test cases into different components like, take input, do the calculation, verify the output etc. in case of very complex scenarios and have taken 2 or more days.

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Q #36) What factors determine the effectiveness of Automation testing?

Answer: Some of the factors that determine the effectiveness of automation testing are:

- Time saved by running scripts over the manual execution of test cases.
- Defects found
- Test Coverage or code coverage

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- Maintenance time or development time
- Stability of the scripts
- Test Reusability
- Quality of the software under test

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Q #37) Which test cases can be automated?

Answer: Types of test cases which can be automated are:

(i) Smoke test cases: Smoke testing is also known as build verification testing. Smoke test cases are run every time when a new build is released to check the health of the build for acceptance to perform testing.

(ii) Regression Test Cases: Regression testing is the testing to ensure that previously developed modules are functioning as expected after a new module is added or a bug is fixed.

Regression test cases are very crucial in incremental software approach where a new functionality is added at each increment phase. In this case, regression testing is performed at each incremental phase.

(iii) Complex Calculation test cases: Test cases which involve some complex calculations to verify a field for an application fall into this category. Complex calculation results are more prone to human errors hence when automated they give accurate results.

(iv) Data-driven test cases: Test cases which have the same set of steps and run multiple times with the change of data are known as data-driven test cases. Automated testing for these kinds of test cases is quick and cost-effective.

(v) Non-functional test cases: Test cases like load tests and performance tests require a simulated environment with multiple users and multiple hardware or software combinations.

Setting up multiple environments manually is impossible for each combination or number of users.

Automated tools can easily create this environment to perform non-functional testing easily.

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Q #38) What are the phases in Automation testing Life Cycle?

Answer: The phases in Automation testing life Cycle include:

1. The decision to perform automation testing.
2. Identify and [learn about the automation tool](#).
3. Determine the scope of automation testing.
4. Design and develop a test suite.
5. Test Execution
6. Maintenance of test scripts.

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Q #39) What is an Automated test script?

Answer: An automated test script is a short program that is written in a programming language to perform a set of instructions on an application under test to verify if the application is as per the requirements.

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This program when run, gives the test results as pass or fail to depend on if the application is as per the expectations.

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Updated on: 27/12/2022

1. Write steps to automate primary “login” functionality test cases for an application?

Here are the steps to automate basic login functionality:

Step 1) Understand the project requirement.

Step 2) Identify the Test scenarios

Step 3) Prepare a data input file with the data corresponding to each scenario

Step 4) Launch the tool from the program.

Step 5) Identify the username, password, and login buttons.

Step 6) Verify that the error message for negative scenarios is the same as the success message for positive test -scenarios.

These interview questions will also help in your viva(orals)

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2. Where will you maintain information like URL, login, and password?

URL, login, and password are important information used very often and change frequently. They should always be maintained in a separate file. If not done, then the automation tester must change it in every file with its reference.

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3. Is Automation testing white box testing or black box testing?

Automation testing is primarily black box testing.

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4. What are the Prerequisites of Automation Testing?

A few important pre-requisites of Automation Testing are:

- A stable build
- Functionalities to be tested
- Test cases for automated Testing

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5. What is the average number of test cases you have automated per day?

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The answer depends on the length and complexity of the test scenario. Generally, a QA tester can automate 2-4 test scenarios daily when the complexity is limited. However, sometimes it might reduce to 1-2 when the complexity is high.

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Date: 28/12/2022

1. What do you mean by XPath expressions?

XPath defines a pattern or path expression to select nodes or node sets in an XML document. These patterns are used by XSLT to perform transformations. XPath specifies seven types of nodes that can be output of the execution of the XPath expression.

- Root
- Element
- Text
- Attribute
- Comment
- Processing Instruction
- Namespace

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2. What is XPath syntax?

The XPath syntax specifies the different nodes, path expressions, path notation, predicates and URLs which are used to define the XML document.

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3. What do you understand by XPath number functions?

In XPath, number functions are used to fetch the different type of values from the expressions. For example, ceiling value, floor value etc.

There are four types of number functions in XPath:

- ceiling()
- floor()
- round()
- sum()

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4. How to define relationship among nodes?

There are following types of nodes in XPath. These nodes are related to each other to form a tree like structure. These nodes are:

- Parents

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- Children
- Siblings
- Ancestors
- Descendents

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5. What are the different XPath Axes?

XPath axes are used to set relation of current node with another node. A list of XPath axes to set relation with other nodes are:

- ancestor: It is used to get all ancestor (parent, grandparent etc) of current node.
- ancestor-or-self: It is used to get all ancestors (parent, grandparent, etc.) of the current node and also the current node.
- attribute: It is used to get all attributes of the current node.
- child : It is used to retrieve all children of the current node.
- descendant: It is used to get all descendants (children, grandchildren, etc.) of the current node.
- namespace: It is used to get all namespace nodes of the current node.
- preceding: It is used to get everything in the document that is comes before the start tag of the current node.

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Date: 29/12/2022

Framework Related questions:

6. Have you created any Framework in your project?

Ans: If you are a beginner or fresher or having below 2 years of experience, your answer should be No. I didn't get a chance to create a framework. I have used the framework in the project which is already available in my organization.

If you are an experienced tester and having 2.5 years of experience, your answer should be Yes or No, depending in your knowledge. I have created a framework. If your answer is No, but I have involved in the creation of the framework.

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7. What are the advantages of using Selenium Automation Framework?

Ans: There are several advantages to using a selenium automation framework. They are as follows:

- Increases code reusability. Create one time and execute multiple times with less or no maintenance.
- Easier to use.
- Improved code understandability and readability.
- The automation framework provides flexibility to code.
- Reduces script maintenance.
- It generates automatic test reports after test execution.

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25. What is Object Repository?

Ans: An object repository is a common storage location where we store a collection of all required application objects and their properties. It is mainly used to store element locator values in a central location to avoid hard coding within scripts.

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28. What is Properties file in Selenium?

Ans: Properties file in Selenium is a text file wherein data is stored in the form of key-value pairs. We will create properties file to store all element locators.

This properties file acts as an object repository in Selenium WebDriver.

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29. How do we store data into properties file?

Ans: In the properties file, data is stored in the form of Key-Value pairs. The key-value pair is represented by two string values separated by the equal sign. We store element name and locator values of WebElement into the properties file to identify web elements.

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Date: 30/12/2022

SDET Interview Questions

1) What is the definition of ad hoc testing?

Adhoc testing is informal testing. It is performed without any planning and documentation. This kind of test is conducted randomly without any expected results.

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2) State the difference between priority and severity

Priority means how important a bug is to be fixed, while severity means how- harmful or damaging the bug is to the system.

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3) Describe roles and responsibilities of this job

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- Need to perform Test Automation and set up frameworks on platforms like Web and Mobile.
- Create & manage bug reports and constantly remain in touch with the development team.
- Communicate with clients
- You should also be able to set up and manage test automation frameworks independently.

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4) Discuss Typical working day of SDET

On a daily basis, you mostly occupied on the following tasks:

1. Understand project requirements
2. Creating and executing test cases
3. Reporting and testing bugs

You also need to give your input to the design and development team.

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5) What are the elements of a good bug report?

A good bug report contains a

- Descriptive summary of the bug
- The steps to reproduce the bug
- The expected and real behavior of the bug

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Date: 02/01/2023

1. What is the difference between String and StringBuilder in Java?

Ans: A String is immutable in Java, while a StringBuilder is mutable in Java.

An immutable object is an object whose content cannot be changed after it is created.

When we try to concatenate two Java strings, a new String object is created in the string pool.

This can be demonstrated by comparing HashCode for String object after every concat operation.

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2. Write a program for swapping two numbers without using third variable?

Ans:

```
public class JavaSwapNumbers {
    public static void main(String args[]){
        int a = 5, b = 6;
        System.out.print("Before swap:\na = " + a + "\nb = " + b);
        a = a + b; //a becomes 11
        b = a - b; //b becomes 5
        a = a - b; //a becomes 6
```

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```
System.out.print("\n\nAfter swap:\na = " + a + "\nb = " + b);
}
}
```

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3. Write a program to reverse string without using any function?

```
public class ReverseString {
```

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

```
        String str = "Hello world";
```

```
        String revString = "";
```

```
        for (int i = str.length() - 1; i >= 0; --i) {
```

```
            revString += str.charAt(i);
```

```
        }
```

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

```
    }
```

```
}
```

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4. Write a program to find the common element from two arrays?

```
import java.util.Scanner;
```

```
public class CodeScanner
```

```
{
```

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

```
    {
```

```
        int[] arrOne = new int[5];
```

```
        int[] arrTwo = new int[5];
```

```
        int i, j;
```

```
        Scanner s = new Scanner(System.in);
```

```
        System.out.print("Enter 5 elements for the first array: ");
```

```
        for(i=0; i<5; i++)
```

```
            arrOne[i] = s.nextInt();
```

```
        System.out.print("\nEnter 5 elements for the second array: ");
```

```
        for(i=0; i<5; i++)
```

```
            arrTwo[i] = s.nextInt();
```

```
        System.out.println("\nCommon elements are:");
```

```
        for(i=0; i<5; i++)
```

```
        {
```

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```
for(j=0; j<5; j++)
{
    if(arrOne[i]==arrTwo[j])
        System.out.print(arrOne[i]+ " ");
    }
}
}
```

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5. What is the difference between == and equals methods?

== is used to compare the reference variable of two String object & equals is used to compare the content of two Strings object .Both returns the boolean value.

Example...

String s1="Java";

String s2="Java";

System.out.print(s1.equals(s2));//true because content is same.

System.out.print(s1==s2);//true because both reference variable are refering to the same String.

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6. What is the difference between method overloading and method overriding?

Method Overloading

- 1) Method overloading is used to increase the readability of the program.
- 2) Method overloading is performed within class.
- 3) In case of method overloading, parameter must be different.
- 4) Method overloading is the example of compile time polymorphism.
- 5) In java, method overloading can't be performed by changing return type of the method only. Return type can be same or different in method overloading. But you must have to change the parameter.

Method Overriding

- 1) Method overriding is used to provide the specific implementation of the method that is already provided by its super class.
- 2) Method overriding occurs in two classes that have IS-A (inheritance) relationship.
- 3) In case of method overriding, parameter must be same.
- 4) Method overriding is the example of run time polymorphism.
- 5) Return type must be same or covariant in method overriding.

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7. Give an example of method overloading in selenium?

This is a simple overriding example of the "findElement" method.

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```
public static WebElement findElement(By Locator){

WebElement anElement = fluentWait.until(new Function<WebDriver, WebElement>() {
    @Override
    public WebElement apply(WebDriver webDriver) {
        webDriver=sampleDriver;
        return sampleDriver.findElement(Locator);
    }
});

return anElement;
}
*****
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*****
```

8.SQL query to fetch 2nd max salary from the table?

```
select
(SELECT MAX(Salary) FROM Employee) maxsalary,
(SELECT MAX(Salary) FROM Employee
WHERE Salary NOT IN (SELECT MAX(Salary) FROM Employee )) as [2nd_max_salary]
*****
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*****
```

9.What is the difference between Array and ArrayList?

Array: A straightforward data structure with a continuous memory location, an array stores its contents with the same name but distinct index numbers for each element of the array it contains. It is imperative that all of the data stored in an array be of the same type. After an array has been declared, its size cannot be changed.

Array List: The Java collection framework contains a data structure known as an ArrayList, which is dynamic in nature. Additionally, it has components that are of the same type. In this case, it is not necessary for us to specify the length of the list.

```
*****
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*****
```

10. How to input text in the text box without sendkeys?

Selenium Automation Testing Tools We can input text in the text box without the method sendKeys with the help of the JavaScript Executor.

Selenium executes JavaScript commands with the help of the executeScript method. The JavaScript command to be run is passed as parameter to the method.

```
*****
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```

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11.How to handle scroll bar using selenium?

Using Javascript executor

Basically, there are of 2 types:

Horizontal Scroll bar

Vertical Scroll bar

#1) Horizontal Scroll bar

A horizontal scroll bar lets the user scroll towards the left or right to view all the content on the window.

```
JavascriptExecutor js = (JavascriptExecutor)dr;  
js.executeScript("window.scrollTo(0,70)");
```

A vertical scroll bar lets the user scroll up-down or vice versa to view the complete content on the window.

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12. What is the return type of findElement?

Ans: driver.findElement returns WebElement

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13. WebElement is an interface or class.

Ans: WebElement is an Interface. WebElement represents an HTML element. Generally, all interesting operations to do with interacting with a page will be performed through this interface.

All the frequently used methods like clear(), click(), findElement, findElements(), sendKeys, getText() and many others are associated with this interface.

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14.How to perform double click on any component?

Ans: e can perform double click on elements in Selenium with the help of Actions class.

In order to perform the double click action we will use moveToElement () method, then use doubleClick () method.

Finally use build ().perform () to execute all the steps.

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15.What is the difference between Interface and Abstract?

Ans:

Abstract class can have abstract and non-abstract methods.Interface can have only abstract methods.

Since Java 8, it can have default and static methods also

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Abstract class doesn't support multiple inheritance. Interface supports multiple inheritance. An abstract class can be extended using keyword "extends". An interface can be implemented using keyword "implements".

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16.Can Interface be extended to another interface?

Ans: Yes, you can do it. An interface can extend multiple interfaces, as shown here:

```
interface Maininterface extends inter1, inter2, inter3 {  
    // methods  
}
```

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17. What do you mean by XPath expressions?

XPath defines a pattern or path expression to select nodes or node sets in an XML document. These patterns are used by XSLT to perform transformations. XPath specifies seven types of nodes that can be output of the execution of the XPath expression.

Root
Element
Text
Attribute
Comment
Processing Instruction
Namespace

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18.What is XPath syntax?

The XPath syntax specifies the different nodes, path expressions, path notation, predicates and URLs which are used to define the XML document.

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19.What do you mean by XPath Axes?

XPath axes are used to identify elements by their relationship like parent, child, sibling, etc. in the same manner like path defines the location of the node.

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20.What do you understand by XPath number functions?

In XPath, number functions are used to fetch the different type of values from the expressions. For example, ceiling value, floor value etc.

There are four types of number functions in XPath:

ceiling()
floor()
round()
sum()

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21. How to mouse hover over a web element?

Actions class utility is used to hover over a web element in Selenium WebDriver
Instantiate Actions class.

Actions action = new Actions(driver);

In this scenario, we hover over search box of a website

actions.moveToElement(driver.findElement(By.id("id of the searchbox"))).perform();

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22. How to take screenshots in WebDriver?

TakeScreenshot interface can be used to take screenshots in WebDriver.

getScreenshotAs() method can be used to save the screenshot

File scrFile = ((TakeScreenshot)driver).getScreenshotAs(outputType.FILE);

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23.Is there a way to type in a textbox without using sendKeys()?

Yes! Text can be entered into a textbox using JavaScriptExecutor

JavascriptExecutor jse = (JavascriptExecutor) driver;

jse.executeScript("document.getElementById('email').value='abc.efg@xyz.com'");

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24.What do you mean by the assertion in Selenium?

An assertion is a method of testing whether a particular condition is true or false. In Selenium, assertions are used to verify the state of elements on a page or the results of an action.

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25. How is the relationship among nodes defined?

The nodes that are available in XPath are given below. And these are related to each other in a structure like tree. The nodes are-

- Parents
- Children
- Siblings
- Ancestors
- Descendants

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26. How is dynamic text handled in XPath?

The text function finds the elements with the help of the text present in them.

<button type = "button">Blueberry</button> (Blueberry is text here.)

XPath with text : //button[text() = 'Blueberry']

But contains function has to be used along with text function when the text is dynamic. And some part of the string needs to be static for this to work.

<button type = "button">****berry</button>

XPath with text : //button[contains(text(), 'berry')]

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27. Can the XPath be used inside a frame?

The frame is nothing else but another webpage which is shown as a different web page. Therefore, we can use the XPath just like a normal web page once we go into the frame.

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28. Write the XPath for a button.

The XPath for a button is written as given below. The button can be formed in two ways- by using input tag or button tag.

// form button using the input tag

<input type = "button" value = 'ABCD'>

XPath : // input [@type = 'button']

// form button using the button tag

<button>ABCD</button>

XPath : // button

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29.What is the difference between type keys and type commands?

There is a difference between type keys and type commands in computer programming. Type keys are specific characters that you type on the keyboard, while type commands are instructions given to the computer.

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30.What is the main disadvantage of implicit wait?

The main disadvantage of implicit wait is that it can slow down your tests. This is because, by default, the implicit wait time is set to zero. As such, if an element is not found immediately, your test will keep trying to find it for the duration of the implicit wait time

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31.How can we launch different browsers in Selenium WebDriver?

We can launch different browsers in Selenium WebDriver using several methods. For example, we can use the setWebDriver() method to specify the path to the browser's executable file. Alternatively, we can use the addCustomProfilePreference() method to add a custom profile preference for the browser. Finally, we can use the launchBrowser() method to launch the browser.

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32.Write a code snippet to launch Firefox browser in WebDriver.

```
public class FirefoxDriver {  
    private WebDriver driver;  
    public FirefoxDriver() {  
        this.driver = new FirefoxDriver();  
    }  
    public void get(String url) {  
        this.driver.get(url);  
    }  
}
```

Assuming that you have already downloaded and installed Firefox, the next thing you need to do is write a code snippet to launch Firefox browser in WebDriver. The code snippet for launching Firefox browser is given below:

```
driver = new FirefoxDriver();  
driver.get("http://www.google.com");
```

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33. How do you find broken links in Selenium WebDriver?

When we use driver.get() method to navigate to a URL, it will respond with a status of 200-OK

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200 – OK denotes that the link is working and it has been obtained. If any other status is obtained, then it is an indication that the link is broken.

Some of the HTTP status codes are :

200 – valid Link
404 – Link Not Found
400 – Bad Request
401 – Unauthorized
500 – Internal error

As a starter, obtain the links from the web application, and then individually get their status.

Navigate to the interested webpage for e.g. www.amazon.com

Collect all the links from the webpage. All the links are associated with the Tag 'a'

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

Create a list of type WebElement to store all the Link elements in it.

```
for(int i=0; i<links.size(); i++) {  
  
    WebElement element = links.get(i);  
  
    String url=element.getAttribute("href");  
  
    verifyLink(url); }  

```

Now Create a Connection using URL object(i.e ., link)

```
URL link = new URL(urlLink);
```

Connect using Connect Method

```
URLConnection httpConn =(URLConnection)link.openConnection();
```

Use `getResponseCode ()` to get response code

```
if(httpConn.getResponseCode()!= 200)
```

Through exception, if any error occurred

```
System.out.println("Broken Link");
```

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34. *Useful Methods in Arrays Class*

1. Arrays.sort(ArrayName) :

void method which we can use to sort any array in ascending order.

Example :

```
int arr[] = {1,8,3,4,5};  
  
Arrays.sort(arr);  
  
for(int i:arr) {  
  
System.out.print(i + " ");  
  
}  
  
// output : - 1 3 4 5 8
```

2. Arrays.BinarySearch(ArrayName, search element) :

To search any element in array we can use this method . It returns int as the index of the search element.

Example:

```
int arr[] = {1,8,3,4,5};  
  
int res=Arrays.binarySearch(arr, 5);  
  
System.out.println(res);  
  
// output : 4 (index of 5 in arr)
```

3. Arrays.equals(ArrayVar1,ArrayVar2) :

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Returns boolean , we can use this method to compare the array

elements are similar for two different arrays or not.

Example :

```
int arr[] = {1,8,3,4,5};
```

```
int brr[] = {1,8,3,4,5};
```

```
if(Arrays.equals(arr, brr))  
{  
    System.out.println("Equal");  
}  
else  
{  
    System.out.println("Not equal");  
}
```

// Output : Equal

```
*****  
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```

#learning #maven 🚀💻
Let's learn maven basics:

[🤖 PodTest]: How SDET/QA uses maven?

[Akhil 🧑]: They tend to use 'Test' phase of the 'Default' build lifecycle along with 'Surefire Plugin' & Testing framework like Junit/TestNG to write test cases.

```
*****  
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```

[🤖 PodTest]: What is 'Test' phase?

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[Akhil 🏠]: Build Lifecycles are made of different phases, which are executed sequentially.

- 'Test' phase has the responsibilities to run files in Test folder of your project.

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[🤖 PodTest]: what is 'SureFire' plugin?

[Akhil 🏠]: In Maven, each phase of lifecycle is mapped to a 'plugin:goal' binding.

- 'Test' Phase is mapped to 'Surefire' plugin.

- When tests are executed, it picks those files under test folder which has postfix 'test' in the name of the class. ex: 'LoginTest.java'

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[🤖 PodTest]: Can you explain step-by-step how it works ?

[Akhil 🏠]: Sure, Consider you want to test Login functionality & has created testcases using TestNG

- 'LoginTest.java'

' is created under test folder, containing all the test methods annotated with @test

- Notice the postfix 'Test' in the filename.

- In pom.xml, add Surefire plugin & also the TestNG Dependency.

- Now run your testcases via command 'mvn test'

- It starts executing your testcases & generates test result in target folder.

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Exception handling using try , catch and finally :

try , catch and finally are the keywords which we can use to handle different exceptions in java.

In try block we can keep the code that might throw the exception .

Example:

```
try {  
    int number=800;  
    System.out.println(number/0); // Divide the number by 0  
}
```

We associate exception handler with try block by providing catch block.

Example:

```
catch(ArithmeticException e)  
{  
    System.out.println("This is : "+ e);  
}
```

The finally block always executes when the try block exits. The finally block is executed even if an unexpected exception occurs.

Example of try with finally block :

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```
try {
    int number=800;
    System.out.println(number/0); // Divide the number by 0
}
finally{
    System.out.println("This is finally block");
}
```

Note :

1. Each try block can have one catch block .
2. We can have multiple try and catch blocks to handle more than one exception.
3. We can have a single try with multiple catch blocks as well.
4. We can try with finally block .
5. Only one finally block is allowed to execute.

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Question :- Difference between String and StringBuffer ?

String :

- * String is immutable.
- * String consumes more memory when we try to concatenate .
- * String class uses String constant pool.
- * To concatenate the string we can use concat("new str")

Example :

```
String str="hello";
```

```
String str1= str.concat("world"); //str1 -> helloworld
```

- * String class does not have any method to reverse .

Tips to reverse : Convert the String to character array ,traverse the array backward.

- * We can convert the Sting to StringBuffer using below code.

```
String sval ="Hello";
```

```
StringBuffer sb = new StringBuffer(sval);
```

```
// Now sb stores Hello
```

StringBuffer :

- * StringBuffer is mutable.
- * StringBuffer saves memory when we append.
- * StringBuffer class uses Heap .
- * We can use append("new string") to add values to existing string.
- * StringBuffer class supports reverse method.
- * We can convert the StringBuffer to String using toString(), which returns a string

Example :

```
StringBuffer sb = new StringBuffer("World");
```

```
String res= sb.toString( );
```

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// res is a string which holds World

One more frequently asked question based on the comparison is
Why String is immutable and StringBuffer is mutable ?

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Question : Difference between Array and ArrayList

Array :

1. Array is a non primitive data type , used for storing multiple values .
2. We can store same type of data in an Array or an Array contains homogeneous data
3. Array is static , as we need to specify the length of the array .
4. We can get the size of the array using arrayvar.length
Example : arrayName.length
5. We can traverse the array using for loop / for-each loop
6. Array is fixed in length.
7. To perform some specific operations on array like sorting and searching we can use Arrays class which is a class available under util package.
java.util.Arrays;

ArrayList :

1. ArrayList is a class under java collection framework.
2. ArrayList can contain heterogeneous elements if we will not specify the type .
Example:
ArrayList al = new ArrayList(); // can hold int , float , string type ect
ArrayList <Integer> al = new <Integer> ArrayList(); // can hold only integers
3. ArrayList is dynamic , without bothering about the size we can add n number of elements i.e we do not have to specify the size.
4. We can get the size of the ArrayList using size() method.
Example : ArrayListObject.size ()
5. We can traverse the ArrayList using iterator with while loop. //Iterator is an interface
6. ArrayList is variable length.
7. To perform specific operations on ArrayList like getting max , min , sort
etc

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What is the role of QA engineer in a Sprint planning meeting?

Many consider that QA person do not need to contribute to the sprint planning. However, that could be a wrong perspective.

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My insights so far on the QA's role in [#sprintplanning](#)

- ✓ Identity the user stories that could be ready for Validation in the same sprint and user stories QA ready in n+1 sprint.
- ✓ Multiple spike stories or multiple Development stories might crowd QA efforts in a single sprint
- ✓ Determine the dependency with other teams to execute test cases
- ✓ Raise a flag on the pending bugs from previous sprint to be included in the next sprint
- ✓ Analyze the Production Stories and Non Prod stories and how they are spread across the sprint.

These pointers could help plan the QA efforts better and would reduce surprises in between the sprints.

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How do you store the test data in your automation framework?

Have asked this question a number of times and mostly hear the below

- ↓ Use JSON
- ↓ Use Excel
- ↓ Use Feature File

This could be an incomplete answer at times. It would be good and clear if you could add the below pointers to your answer

- ✓ Talk about the dependency that you use to access to the file. For eg apache poi for excel, jackson for json etc
- ✓ Describe on how the data is fetched from file into code. Eg. Fetch the data and save it in a map, Utilize data provider in testNG
- ✓ Elaborate on how optimised is your framework to access data from external files
- ✓ Good to have: If you could talk about data maintenance and refactoring.

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