

Automation Testing Interview Guide by Subburaj S

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General:

- Tell me about yourself?
- What are your Role and Responsibilities?
- Architecture of your current application?
- Which Automation framework you are using in your organization can you tell me the folder structure and flow of your framework?

Java:

- Why String is **immutable** in Java?
- What is **static** in java?
- What is **final** in java?
- What is **this** word in java?
- What is **finally** and where do we use it?
- What is **Autoboxing** and **unboxing**?
- What is **serialization** and **deserialization**?
- What is an **abstract** modifier?
- What is **call by reference** and **call by value**?
- **Primitives** and **Non-Primitives** datatypes in Java? String is primitive or non-primitive?
- What is the method of overloading?
- Why is it important to override **HashCode()** when you override **equals()**?
- What is the difference between a **checked** and **unchecked** exceptions?
- Difference between **final**, **finally**, **finalize**?
- Difference between **abstract** and **interface**?
- Difference between **String Builder** and **String Buffer**?
- Difference between **Array** and **ArrayList**?
- Difference between **ArrayList** and **LinkedList**?

- How to define dynamic array?
- Can we create the object for the abstract classes?
- Can we create the object for an interface?
- Can we create constructor of abstract class?
- Can constructor be overloaded. Explain why?
- Can main method be **overloaded**?
- Can main method be **overridden**?
- Can we **override** static method?
- Can we **overload** static method?
- Can we write non-abstract methods in **Interface**?
- Can we execute a java program **without main method**?
- Can we call a **non-static variable** in static method?
- Can I execute multiple **catch blocks without try** will it give me compile time error?
- How to achieve **serialization** and **deserialization**?
- If we declare the main method as private what will happen?
- How to check whether the array is empty and null?
- What are the classes available in a **list interface**?
- What is the use of **constructor** in java?
- What is **HashMap**? Can we store objects in **HashMap** and how to retrieve them?
- Difference between **Hash Map** and **Hash Set**?
- Where did you use **HashMap** in your project and also oops concepts in your Automation Framework?
- Access modifiers in java and its scope?
- What is meant by **Thread**?
- What is **singleton** class in java?
- What is the difference between **static binding** and **dynamic binding**?
- Is **HashMap** thread safe?
- What is **static**, How to set value of **static variable**
- Can we **overload** private methods?
- Is it possible to **extend Final Class**?
- Is it possible to **override Static method**?

- Is it possible to **overload** main method?
- Is it possible to **initialize** a **variable** present in an **Interface**?
- What would happen, if **multiple inheritance** is possible, in Java?
- Explain Exceptions hierarchy in java?
- Explain **Set** and **Map** in Java?
- Explain about **Inheritance**.
- Difference between **overloading** and **overriding**?
- Difference **Encapsulation** and **Abstraction** ?
- Difference between **throw** and **throws**?
- What is **polymorphism**?
- How and when to use **interface**?
- Can we instantiate an interface?
- Can we over load main method in Java?
- Can we **override** constructor?
- Where do you use polymorphism in java?
- What is the `System.out.println`? and use of it?
- Why do we use **finally** and how it differs from the **final** keyword?
- Can we use multiple catches? When can we use multiple catches?
- Different between POI and JXL?
- How to prevent the **override** method in Java?
- Why is the main method static?
- What is the use of **static variables**?
- What is the difference between **list** and **set**?
- How will you access default and protected class?
- Why Object creation not possible in **Abstract classes**?
- Design pattern in JAVA.
- What All of the classes in the Java Collection Framework have?
- Situations when we use **abstraction** and **Interface** - explanation about **loosely coupled** and **tightly coupled**
- Will Java provide default constructor by own ? How

Agile:

- What is an agile methodology?
- What is the scrum and who is your scrum master?
- Ceremonies followed in Agile methodology?
- Retrospective meeting?
- Describe Scrum ceremony?
- When do you automate in current sprint or next sprint?
- Explain velocity in sprint.
- In tight sprint schedule, if a new requirement is added, how will you handle this situation?
- What is **backlog** in Scrum methodology?

Functional Testing:

- What is Test Plan?
- Explain the bug life cycle?
- Difference between **smoke** and **sanity** tests?
- Difference between **regression** and **retesting**?
- Difference between **functional** and **regression** testing?
- Difference between **severity** and **priority**?
- Difference between **Test Plan** and **Test Strategy**?
- Difference between boundary value analysis and equivalence partitioning?
- Difference between **white box** and **black box testing**?
- If we are having 1000 test cases, what type of testing carried for automation testing? Can we write a method that returns two or more values? If then, how?
- **Bug Life Cycle**?
- **Bug Triage**?
- What is **exploratory testing**?
- What is **ad hoc testing**?
- What is **build acceptance testing**?
- What is difference between **Validation** and **Verification**?
- Explain severity and priority and High severity with low priority, low severity and high priority?
- Given the test cases having priority of -1,0,1,2 tell me the sequence of execution.
- Explain inner join and outer join in SQL?
- Difference between **DELETE**, **DROP** & **TRUNCATE**?
- What are test design techniques?
- What is **deferred bug**?
- How you will decide **what tests to automate**?
- When you decide to stop the testing?
- If your **testsuite** takes 1 and half to run, what you will do to reduce the time?