Assignment – 1

Q – What is Automation Testing?

Ans.

Automation testing is stretegy in which tester programmitically runs the test using tool or framework.

Steps:

- -Identifying testing components
- -Framework design
- -Test script
- -Test execution
- -Test result analysis

Benefits of automation testing:

- -Saving cost
- -Faster feedback loop
- -Better allocation of resource
- -High accuracy
- -Detects bug earlier
- Re-useable test script
- -Increase efficiency
- -Ensure consistency

Q. - Types of automation testing? Write names of tools too.

Ans.

Testing types:

- -Smoke testing
- -Unit testing
- -Functional testing
- -Integration testing
- -Regression testing

Tools:

Selenium

Cucumber

Appium

QTB

Robot framework

Q. Why Selenium?

Ans.

- Cost efficient as it is open source
- 75% projects are accessed via url

- Multiple OS
- Multi browser
- Multi language
- Multi framework
- Web based automated

Q. Why JAVA for Selenium?

Ans.

- Java is the commonly used programming language for Selenium across the world. There are various reasons why Java is used for Selenium.
- -Java is the popularly used language in the IT industry, the Huge community promoting it along with the massive repository of references.
- -About 77% of Selenium Tester is using java which makes knowledge sharing very quick and easy.
- -In Java, there is an abundance of readily available frameworks, plugins, APIs and libraries that encourage Java for test automation.
- -Java makes use of JVM, it is a platform-independent language. It can be used in the Operating environment where JVM is installed.
- -Java is statically typed, and the Java IDEs give a set of feedback on errors that you might face while coding.

Q. What is JDK, JRE And JVM?

Ans.

JDK -

JDK is an acronym for Java Development Kit. The Java Development Kit (JDK) is a software development environment which is used to develop java applications and applets. It physically exists. It contains JRE + development tools.

JRE -

JRE is an acronym for Java Runtime Environment. It is also written as Java RTE. The Java Runtime Environment is a set of software tools which are used for developing Java applications. It is used to provide the runtime environment. It is the implementation of JVM. It physically exists. It contains a set of libraries + other files that JVM uses at runtime.

JVM -

JVM (Java Virtual Machine) is an abstract machine. It is called a virtual machine because it doesn't physically exist. It is a specification that provides a runtime environment in which Java bytecode can be executed. It can also run those programs which are written in other languages and compiled to Java bytecode.