Automation Testing:-

#. It is a technique to automate the manually designed test cases without any human intervetion.
#. Automation Testing tool can access test data, it controls the execution of tests and compare the actual result against the excpected result.
#. It Covers both functional and non-functional testing.
#. Functional automation is used for automation for functional test cases.
#. Non-Functional Automation is used for Automation of non-functional test cases.

Automation Testing Tools Used in Functional Automation:-

1. QTP : Provided by Apache
2. Rational Robot " Provided by IBM
3. Coded UI : Provided by Microsoft
4. Selenium : Open Source : Widely Used in the Market
5. AutoIT : Open Source

Automation Testing Tools Used in Non-Functional Automation

1. Load Runner : Provied by HP
2. JMeter : Provided by Apache
3. Burp Suite : Provided by PortSwigger

1. SDLC : Software Development Life Cycle
2. STLC : Software Testing Life Cycle
3. ATLC : Automation Testing Life Cycle.

ATLC : Automation Testing Life Cycle.

1. Test Automation Feasiblity Analysis.

If we are ging to automate Any web Application before that will check how much feasible to automate
Web Application.Will check Application be Automatable or not if yes, then how much %. (Example 10% 20 , 50 etc...)

Exaxmple :- 100 Test Cases

80 Test Cases Can be Automate : Yes, We Can
20 Test Cases can not be Automate : No, We Cannot...

80/80 : 100%

2. Test Tool Selection.

#. Which Tools and Technology is widely used in the market.
Example:- Selenium (Will discuss with the team)

3. Determine the Scope of Automation.

Example:- 1 Test Case will have 100 Test Steps.
Auomate : 90 Steps (Manually : 2 hours) (Automation : 5 Mins)
Manual : 10 Steps

4. Test Planning,Test Design,Test Development

#. Will Start with Test Planning,how will start with Automation , Which Test Cases we should pick first
.Everything will plan in our mind and will discuss with the team and will start design/development our automation script.

5. Test Exceution.

#. Once the Automation Script is Ready,then will exceute the Automation Test Script.
if we are executing the Test Script at the same time suppose any changes came into picture
then we have to modify the existing Test Script.(On Cilent Demand)
that Comes under Maintaince.

Example : if Some Test Script is Failed then we have to resolve it,that comes under maintaince.

ATLC: Automation Testing Life Cycle.

1. Test Automation Feasiblity Analysis.
2. Test Tool Selection.
3. Determine the Scope of Automation.
4. Test Planning,Test Design,Test Development
5. Test Exceution.