**DAY 3 Assignments**

**1. List down all the Models of SDLC ?**

Waterfall model

Spiral modal

V model

Agile Scrum

Incremental model

XP

Kanban

RUP

2. What is STLC? Explain all stages of STLC?

Software Testing life cycle it is part of development process it includes six phases

* Requirement Analysis
* Test planning
* Testcase development
* Environmental setup
* Test case Execution
* Test cycle closure

Requirement Analysis:

We take the requirement from the client it is documented already

Then we refer the document we do the remaining process.

Test planning:

* In test planning we identify the resource, team formation and time estimation, preparation of the test plan review and test plan sign-off.

Testcase development(test designing)

* Preparation of test Sceneries, and test case preparation(step by step process to check the functionality. Review of test cases and sign off.

Environmental setup:

We set up the environment for the test case execution.

Test case execution:

Executing the test cases and do relevant testing and reviews and find the defects, tracking the defects and report to the developer.

Test Closure:

Analysis the report and bug reports evaluating exit.

3.As a test lead for a web-based application: your manager has asked you to identify and

explain the different risk factors that should be included in the test plan. Can you provide

a list of the potential risks and their explanations that you would Include in the test plan?

Before testing the software one of the most effective feats QA teams can perform is risk identification.

* The risk factors include
* Tight timelines
* Undefined project scope
* Insufficient resources
* Continuously changing requirements
* Natural disasters

**4.Distinction between QA And QC responsibilities**

* QA aims to prevent the defect and QC aims to identify the defect
* QA It does not involve executing the program

QC always involves in executing the program

* QA it is a method to manage the quality verification

QC  method to verify the quality-Validation

* QA involves in full SDLC

QC Involves in STLC

* QA involves the involvement of whole team

QC includes the testing team

* QA Main motive to prevent defect in system

QC main motive to identify defects

5.Difference manual and automation testing

1. Manual testing , test cases are executed by a human tester

Automation testing, test cases are executed by automation tool

1. Manual testing is time consuming

Automation testing is more faster

1. Investment is required for testing the tools in automation testing

Investment is required for human resource

1. Automation is a reliable method it is performed based on the script and tool

Manual testing is not accurate because of the human errors

1. Automated Tests have zero risks of missing out a pre-decided test.

Manual Testing has a higher risk of missing out the pre-decided test deadline.