1. Explain the difference between a bug and a defect.

• A bug is a programming error in the code that leads to unexpected behaviour in the software. Bugs are identified during testing or by users after software has been released.

• Defect is an error, flaw, failure that causes it to produce an incorrect or unexpected result.

2. Describe the Page Object Model (POM) in test automation. why is it useful?

• The Page Object Model (POM) is a design pattern used in testomation to represent web pages as classes.

• POM is usefull because it improves the maintence and scalabity of test scripts.

• This helps in separation of test logic and page structure reduces code duplication.

3. What is a flaky test and how would you handle it?

• A flaaky test is a software test that yeilds both passing and failing results despite zero changes to the code or test.

• Perform a test that shows that the bug is present, and apply a bugfix on it's branch.

4. How would you prioritize test cases for automation?

- Ranking test cases based on the potential risks associated with their failure.
- Prioritize test cases based on their impact on the business

Priority : • Core Functionality
- User- Critical Paths
- Customer - facing features