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1) Software testing is the process of evaluating and verifying that a software application or system works as intended.

the process of executing a program with the intent of finding errors.

Objectives

- To identify bugs or defects in software.
- To ensure software meets on the requirements.
- To verify reliability, performance, and security.

Types of testing

- Manual testing
- Automated testing
- functional testing

2) Black box testing :-

Testing without knowing the internal code or logic. functionality and behavior of the software. Based on the requirements and specifications. Tester or QA teams, system testing.

White Box testing

Testing with full knowledge of internal code. code structures, logic paths and branches. Based on code and logic developers or white box testers unit-testing

3) Risk Management is the process of identifying, analyzing and handling risks during software development lifecycle to minimize negative impact

Steps:

1. Risk identification
2. Risk Analysis
3. Risk prioritization
4. Risk Mitigation
5. Risk Monitoring and control

types:

- technical risks
- project risks
- organizational risks
- external risks

MP