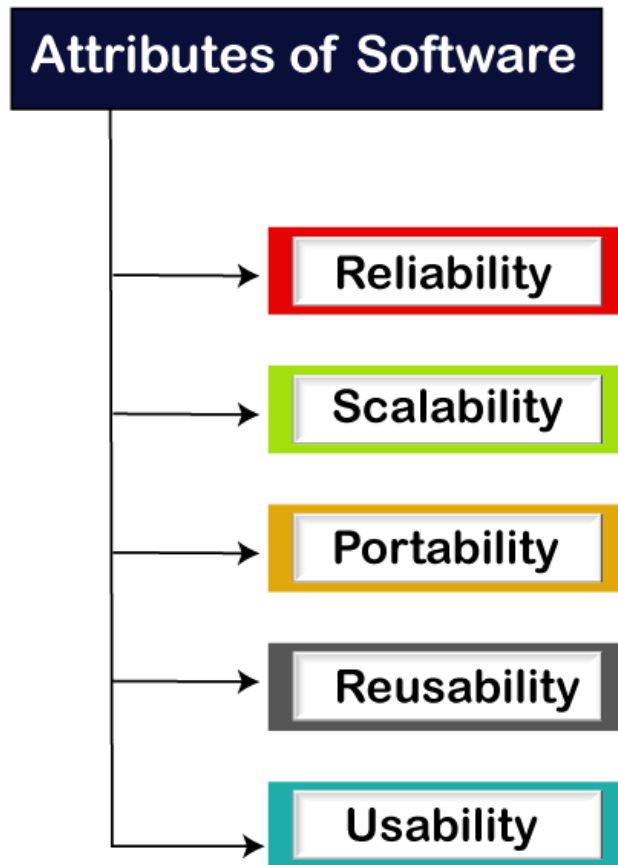# What is Software Testing

Software testing is a process of identifying the correctness of software by considering its all attributes (Reliability, Scalability, Portability, Re-usability, Usability) and evaluating the execution of software components to find the software bugs or errors or defects.

Attributes of Software

- Reliability
- Scalability
- Portability
- Reusability
- Usability

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Why software testing is mandatory:

Testing is mandatory because it will be a dangerous situation if the software fails any of time due to lack of testing. So, without testing software cannot be deployed to the end user.

What is testing:

❖ Testing is a group of techniques to determine the correctness of the application under the predefined script but, testing cannot find all the defect of application.

❖ The main intent of testing is to detect failures of the application so that failures can be discovered and corrected.

Type of Software testing:

Types of Software Testing

- Manual
- Automation

Manual:
- White Box Testing
- Black box Testing
- Gray Box Testing

Black box Testing:
- Functional
- Non-Functional

Functional:
→ Unit Testing
→ Intergration
→ System Testing
→ User Accecptance Testing

Non-Functional:
→ Compatablity Testing
→ Performance Testing
→ Usability Testing