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① What is unified modeling language? Write the significance of it in software development phases.

UML - Unified Modeling Language is a way of visualizing a software programme using a collection of diagrams.

* UML improved integration between structural models like class diagrams and behaviour model like activity diagrams.

* UML added the ability to define a hierarchy and decompose a software system and sub-components.

* UML is accepted by the object Management group as the standard for modeling software development.

12 Distinguish between the development testing and release testing. What do you understand by black-box and white-box testing?

Testing is defined as an activity to check whether the actual results match the expected results and to ensure that software system is defect free.

Testing is part of a more general verification and validation process.

Release testing is the process of testing a particular release of a system that intended for use outside of the development team.

The primary goal of the release testing process is to convince the supplier of the system that is good enough for use.

Release testing is usually a black-box testing process tests are only derived from the system specification.

Black box testing is the software testing method which is used to test the software without knowing the internal structure of code or programme.

White box testing is the software testing method in which internal structure is being known to tester who is going to test the software. Generally, this type of testing is carried out by the software developers.