## ASSIGNMENT-3

Q.1 What is the difference between **verification** and **validation**?

Sol:-

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| **Verification** | **Validation** |
| 1. Verification is a static practice of verifying documents, design, code and program. | 1. Validation is a dynamic mechanism of validating and testing the actual product. |
| 2. It does not involve executing the code. | 2. It always involves executing the code. |
| 3. It is human based checking of documents and files. | 3. It is computer based execution of program. |
| 4. Verification uses methods like inspections, reviews, walkthroughs, and Desk-checking etc. | 4. Validation uses methods like black box (functional)  testing, gray box testing, and white box (structural) testing etc. |
| 5. **Verification**is to check whether the software conforms to specifications. | 5. **Validation** is to check whether software meets the customer expectations and requirements. |
| 6. It can catch errors that validation cannot catch. It is low level exercise. | 6. It can catch errors that verification cannot catch. It is High Level Exercise. |
| 7. Target is requirements specification, application and software architecture, high level, complete design, and database design etc. | 7. Target is actual product-a unit, a module, a bent of integrated modules, and effective final product. |
| 8. Verification is done by QA team to ensure that the software is as per the specifications in the SRS document. | 8. Validation is carried out with the involvement of testing team. |
| 9. It generally comes first-done before validation. | 9. It generally follows after **verification**. |

Q.2 What is the difference between **quality** and **testing**?

Sol:- **QUALITY**:-is nothing but,up to what extent the application is having the correction /completeness/perfection/standard value and everything related to customers specifications.

**TESTING**:-is nothing but,it is a process of identifying quality of an application.