Assignment -03

10 Marks

1. Explain why program inspections are an effective technique for discovering errors in a program. Explain why **validation** is a particularly difficult process. What types of error are likely to be discovered through inspections? What types of error are **unlikely** to be discovered through inspections?

2. A manager decides to use the reports of program inspections as an input to the staff appraisal process. These reports show who made and who discovered program errors. Is this ethical managerial behavior? Would it be ethical if the staff were informed in advance that this would happen? What difference might it make to the inspection process?

3. Suggest why an organization with a competitive, elitist culture would probably find it difficult to introduce program inspections as a V &V technique. Explain why testing can only detect the presence of errors, not their absence.

4. Explain why interface testing is necessary even when individual components have been extensively validated through component testing and program inspections.

5. Explain why a high-quality software process should lead to high-quality software products. Discuss possible problems with this system of quality management.