## SE-Assignment 2

21. Explain equivalence partitioning and boundary value analysis.

Equilibration of a boundary value, analysis are two techniques used in software testing to flentify test cases and reduce the number of test cases for test a software system.

(i) Equivalence partitioning

Smaller and more manageble subsets that are more lively to behave similarly. Input values are distinct into two groups or partitions based on their equivalence or similarly. The idea is that if one test care from a partition is successure, all others would be as well.

(ii) Boundary Movie Apalysis

It Ps a testing teennique wed to identify evoions

or defects that occur at or accound the

boundardes of input values. Input values are

chosen from the edges of their ranges under

the behaviour of the system may change in the

ldea is that Pr a system is functioning consectly

at poundais of woll likely fundon correctly

wolthfu that range

with example explain our · openational Acceptance Testing (OAT) & a type of teeting that fourtee on venitying wether a software application an cooperate In the Interded production environment. · OFT Ps conducted after completers of a system and well acceptance texting and before softeners be deployed into production. · Example: A company has developed a now evenues company has developed a now that It can hande night tropple leads and roansautors cofthaut pasues · They may conduct out to verify that the websités secuera, network Profrasmuctures and software components can hardle the expected load and peutorm well under · Dueing OFT, the company may stimulate realistic production scenarious such as high battle loads, shoultaneous rancación. and data backups

## 93. Explain version control in som

- · version control is a cultical aspect of software configuration management (scm) that helps developelle track thange made to source code, docum on tottom and other Alls over the.
- to cook on the same codebase, teap track of changes and collaborate effectively.
- · At the core version combol Phyolies currently a mapasitory united is a centralised or distributed system for storing flee and recording changes.

  The VCS Keeps track of all changes core made
- · There are two make types of VCs
  - (i) continuised They have a style centual mepochtory Fronzue all changes are stored. Developers must keep make tomake many.
    - and their check them back in Examples of CVS findlude subdisher and perforce
- the enthre report tory on each develops mach e.

  This means the developers can work prolopadatly cofthout need for checking our each time.