Six static software product metrics.

- Den-in/Fan-out: Fan in is a measure of methods that call another method or function (sayx). Fan-out is a measure of the number of functions called by X. High value for fan-in correlates the tightly coupled components of X creating extensive knock-on-effects.
- Denoth of code this is the measure of the STZQ of the program. In general, the larger the STZQ of the code has, the more error prened in will be. Length of code has been proven to be one of the nost reliable metrics for predicting error pronedness.
- 3 Cyclomatric Complexity-This is a measure of the control complexity of of a program. Control complexity may be related to program understandability.
- Department complexity is a measure of the average length of identifiers in a program. The longer the identifiers, the more likely they are to be more meaningful hence none readable.
- Depth of conditional Nestrag- This is the measure of the depth of nesting of it-statements in a program. Peeply nested if-statements are hard to interpret and patentially error prone.
- 6 Fog Index This is the measure of the average length of words one sextences in documents. The higher the Fog Index, the more difficult a document is to intrepret.

Code review process: FTR [Formal Technical Review)

Phases of FTR focess

& Pre-REVICEW

· Pre-review activities are concerned with review planning and review preparation.

> The review meeting

· During the review meeting, an author of the document or program being reviewed should (walk through the document with he review feam.

& Pot-ferror activities

o Trese address the problems and issues trut have been raised during the review meeting.

3 Den OPS Approach:

Dev OPS (software development and It operations) aims to shorten a systems development life cycle and provide continuous delivery with high software quality Dev OPS is complementary to Agrie Software development in its frameworks and metrodologies. CI/CD is the approach to code development and deployment. The primary piple like to release consists of the development phase, system testing phase, and release phase.

(4) Configuation Managements

1) Version Management Keeping track of multiple versions of system components and ensuring that charges made do not intensere with other developer work Dsystem Building: Process of assembling program components, data, and librarres,

3) Charge Management: keeping track of requests for changes to the software from Tustomers and developers, hashing out cost, impact of change, add deciding an implementations. Thelease management: Preparing software for external release and keeples track the