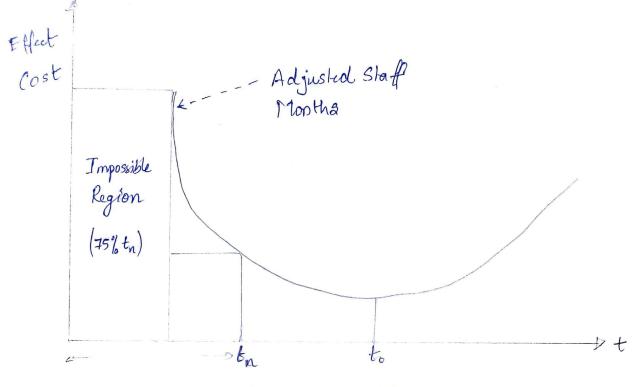
- Q1) Explain PNR with a neat graph.
- Q2.) Explain how nisks are managed by project managers.
- Q3.) Explain building blocks of CASE tools.

## Answers

- A1.) ~ Converting effort estimates into project duration and turn sizes is an important part of project planning.
  - ~ While adding feam members to a project, increases cost in a a linear fasion.
  - Research by Putram Norden found that for projecto that require communication and learning, the efforts follows a Rayleigh distribution.
  - The Putnam Nanden Ray leigh (PNR) Curve. is shown below:



Development Time

tn = Nominal delivery time to = Optimal delivery time (in terms of cost) = 2 tn

- ~ The curved line is the PNR staffing curve, the X is shows time and the Yaxis shows costs
- "The optimal derivery time (to) indicates the lowest cost that the project could be derivered for.
- " If we knowe from sight to left we see that the curve gets skeper and steeper (indicating increased cost) but not much you shortening in time line.
  - Most companies are looking for the best compromise between loss cost and short time lines as indicated by the nominal delivery time "Tn".

## A2.) Risk Managemet

- Risk is a potential obstatacle that y has the equal probability of occurring or not.
- I respective of the predicament Risk Managent is the process of identifying the sisk, with its probability of nisk.
- " Not just huat, stisk managenet involves estimation of its imapat and sketching a logical palan to hardle the plantible situation.
- ~ To iduly Risk it can be geneally classified as
  - (i) Krown Risks: Those prisks which can brought to light of the strict scriting of the Project, business and tehnical emeloronment.
  - (ii) Predicable Risks: These roibt can be for seed using various memos, like studying the past tristory, during a conclusion, plausible informers from
  - (iii) Un preditible Risks: As the name says they beyordthe heach of the human evaluation.

- ~ Risk can be furthur classified on the basis of various Keystones.
- ~ Then the Risk is handled in such away that the impact it may cause is either nullified or minimized.
  - The risks are also monitoror all throught the project as that may enable them or more correctly take the empower them to more correctly take the empower them to take reflerive action accuratly.
    - There are variors factors uschas: techical, marketing business, sales, intered staff, exteral environment, product expedications, stakeholders charactertics, tehnotoceda bassiers, budget itaallines etc.

      There to marage hisk.
      - ~ Project morages are he gas advise to the orady busith for any thing. and finely identification guiste drivers he or she san succeed in progressing the Project.

# A2.) Computer Aided Software Engineering (CASE)

- ~ Lompulur aided software engineering is the implementation of computer faciliteded tooks and methods in software development.
- ~ (ASE is used to ensure high quality and defectfree software.
- The ensures a checkpointed and disciplined approach and helps designers, developes testure and every one else to view the project milestones during development.
- "There are various types of case tools:

## 1. Diagraning Tools:

- ~ Helps in diagramic & graphical suprestation of data & system processes.
  - og: Flow Charle maken fool, UML creators.

#### 2. Report Ganations

- It helps in understading the data requiremans and relationships involved.

### 3. Analysis Tools

- It focus son in consistant our incorrect specification involved in the diagram. eg: - Accept 360

- 4. Central Repository
  - It provides the single point of storage for data diagrams, reports and documents related to project management.

    9:- Grifflub, Gif Lab de.

## 5. Document Grewators

" Helps in generaling us 197 & technial downs asper standards.

It concess downs for technical, & end usurs.

og: - REAGME. md & LICENCE. md generators

on Gittub.

## 6. Code Grenators

~ It aid & or helps to generated bulk code auto matically -some times as a template to begin a project

ege 'flutter nun' - helps in breating a demo project with around 400MB of autogenated