Assignment no :- 03

Topics covered :-

- Software metric
- project scheduling

Date of performance :- 11-08-2022

Evaluation Criteria	Marks (out of 3)	Date	Signature of Instructor
Punctuality	2.1	11-08-2022	
Problem solving technique	2.1		
Attainment level (out of 3)	2.1		

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Assignment No-03

1) Explain the Software metrics

= "A Software Metric is a measure of software characteristic which are measurable or countable."

- Software metrics are value for many reasons, including measuring software performance, planning measuring software performance, planning work items, measuring productivity and many other use.

- Classification of software metrics

1) Product metrics :- " These are the measures of various characteristics of the software product.

1) Size and complexity of software
2) Quality and reliability of software.

2) Process metrics :- These are the measure of various characteristics of the software development process ex. efficiency of fault detection.

- Type of metrics

① Internal metrics :- " The internal metrics are the metrics used for measuring properties that are viewed to greater importance to a S/W developer.

- External metrics :- "External metrics are the metrics used for measuring properties that are viewed to be of greater importance to user Eg portability, reusability etc

- Hybrid Metrics :- "The Hybrid metrics are the metrics that combine product, process, and resource metrics

- Advantages of Software Metrics
  - Comparatively study of various design methodology of SDLC process
  - for analysis / comparison and for critical study of different programming language
  - In the preparation of software quality specification.
  - In getting an idea about the complexity of the code.

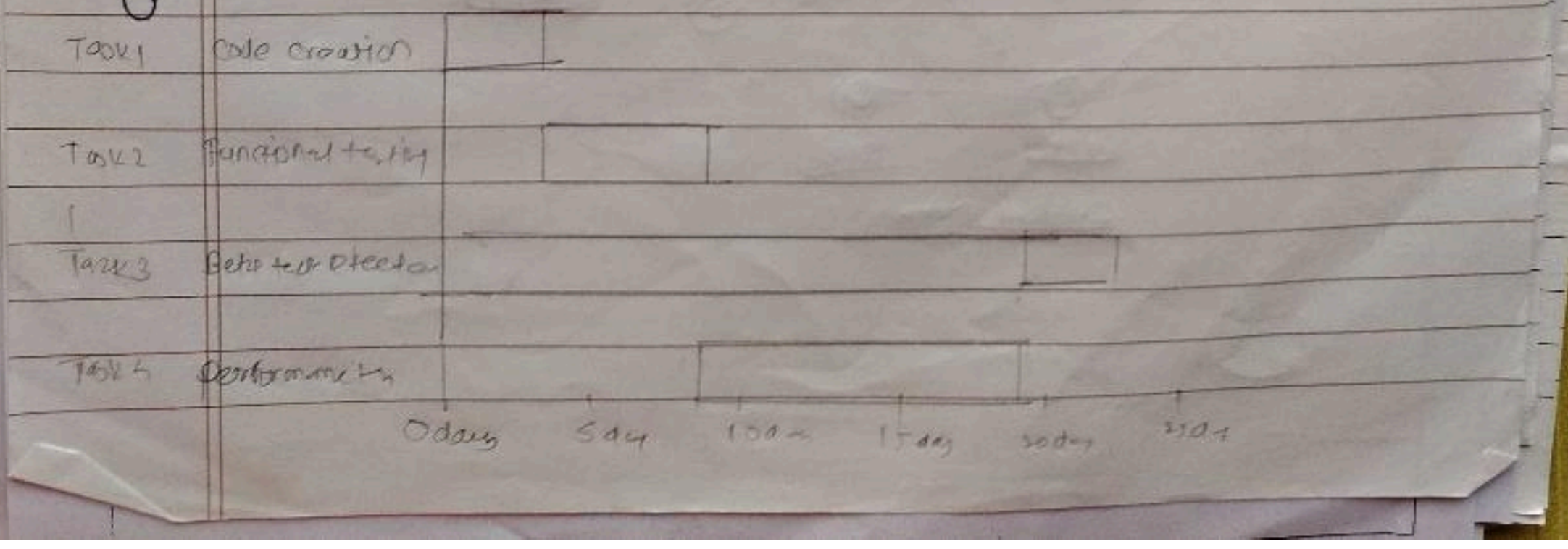
- Disadvantage of Software Metrics
  - Software metrics is not always easy, and in some case, it is difficult to carry
  - The verification & justification of software metrics are based on historical/empirical data whose validity to verify

Q.2) Explain the project scheduling and tracking

- Project-task scheduling is a significant project planning activity. it comprise deciding which function would be taken when to ~~est~~ Schedule the project plan. A set project manager wants to do the following :-

1.) identify all the ~~large~~ function required to complete the project.
2) Break down large function into small activity
3) determine the dependency among various activity
4) Allocate Resources to activity
5) Determine the critical path.
6) plan the beginning and ending dates for different activity

- The most common and important form of project schedule is Gantt chart.
- The gantt chart provides a graphical illustration of a schedule that can be used to plan, coordinate & track task in a project



~~Tracking~~ Technique of Meth. Scheduling

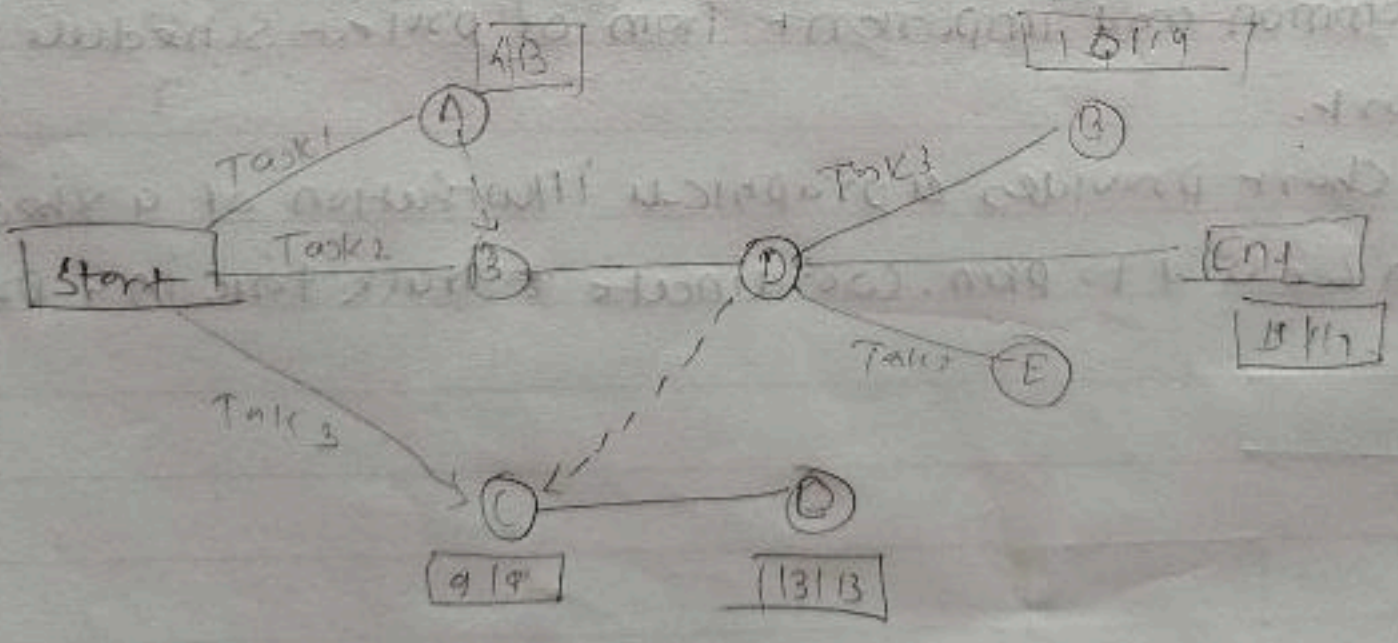
① **Critical Path Method** :- In a project various activities can executed parallel by different teams

- Some activities are depend on other and hence cannot start before another task is completing
- when all activities along with dependencies & documents, one determine the activity that would consume the longest duration

② **Timeline Charts** :-

Timeline charts are very important in project management because they help to visualize time-related activities / organization of task / set deadline & have to define delays.

- It a diagram are created for managers who want to get high-level look at their task or to view any time-related activities.



Critical Path