

Construction of GANTT Chart from Project Schedule

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GANTT Chart

- A type of bar chart that illustrates a project schedule.
- A project management tool commonly used to schedule tasks.
- Named after its inventor, Henry Gantt (1861–1919), who designed such a chart around the years 1910–1915.
- One of the most popular and useful ways of showing activities (tasks or events) displayed against time.
- It is a chart on which -
 - *Each task/activity is represented by a bar.*
 - *The position of each bar reflects the start time and end time of the task/activity.*
 - *The length of each bar represents the relative length (Duration) of the task/activity.*



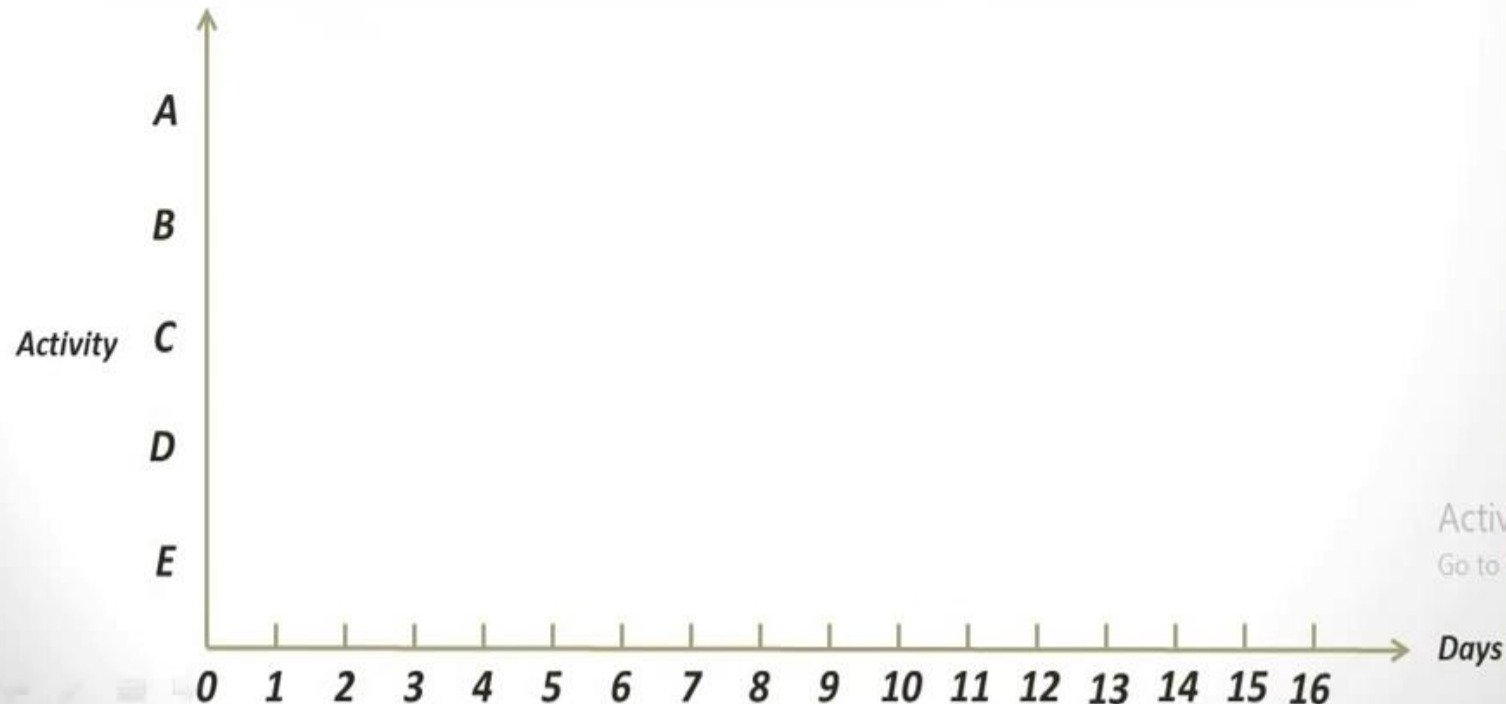
GANTT Chart

- In a two-dimensional GANTT chart –
 - *A suitable time scale is indicated on the horizontal axis/dimension in terms of days or weeks or months or even years.*
 - *A description of activities/tasks makes up the vertical axis/dimension.*
- GANTT chart allows the user to visualize the following things at a glance:
 - *Various activities/tasks of the project*
 - *Start time and end time for each activity/task*
 - *Duration of each activity*
 - *Overlapping areas between activities and also the amount of overlapping time period*
 - *Start time, end time and the overall duration of the whole project*



GANTT Chart Examples

Activity	Predecessor	Duration (Days)
A	None	4
B	None	2
C	A	5
D	B	3
E	C, D	6



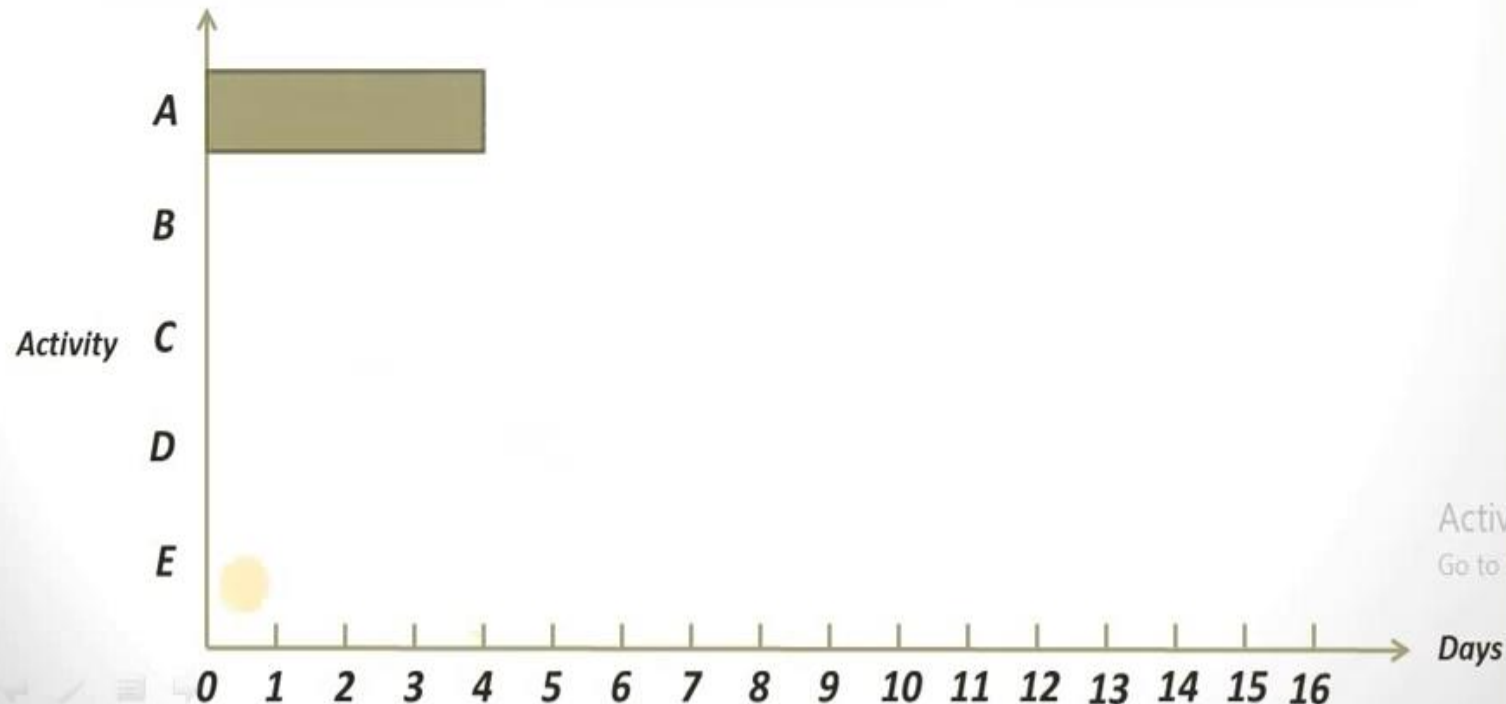
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GANTT Chart Examples

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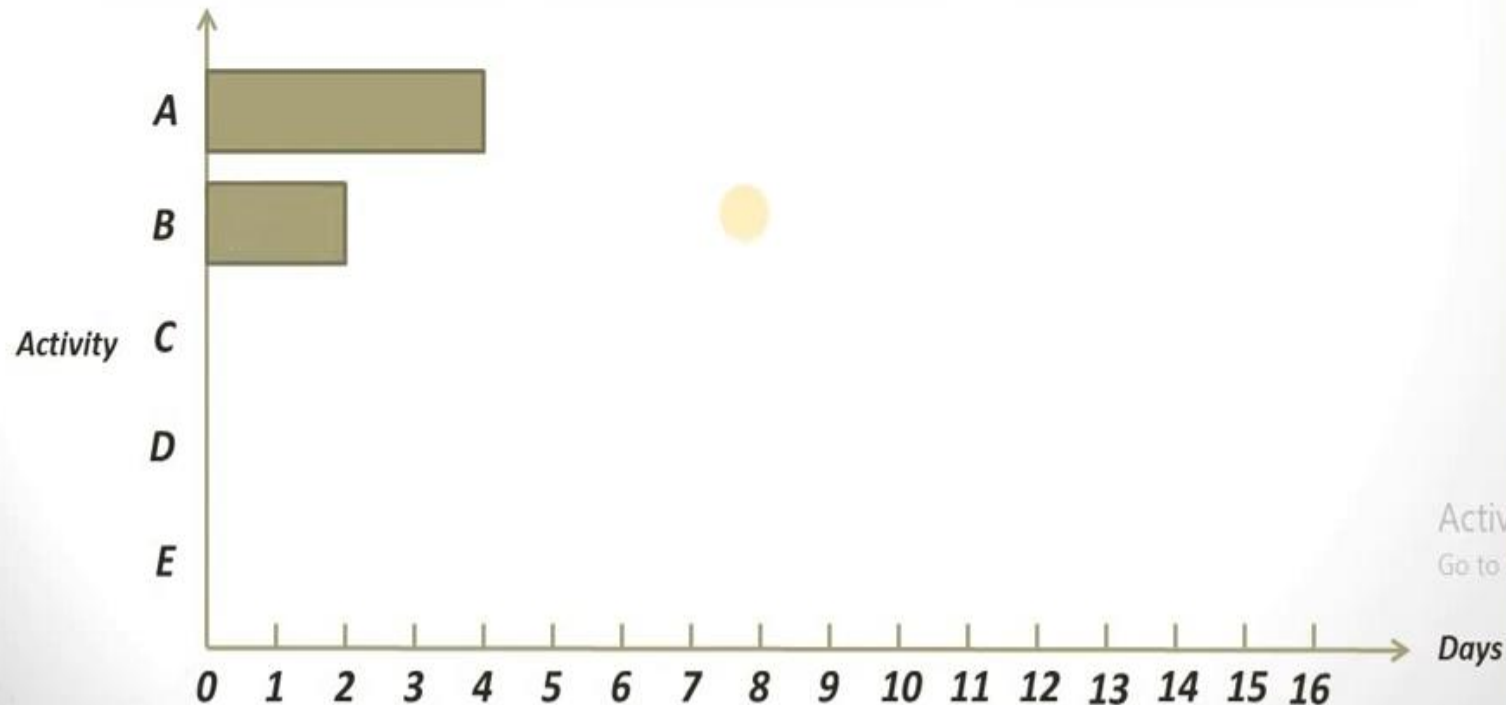
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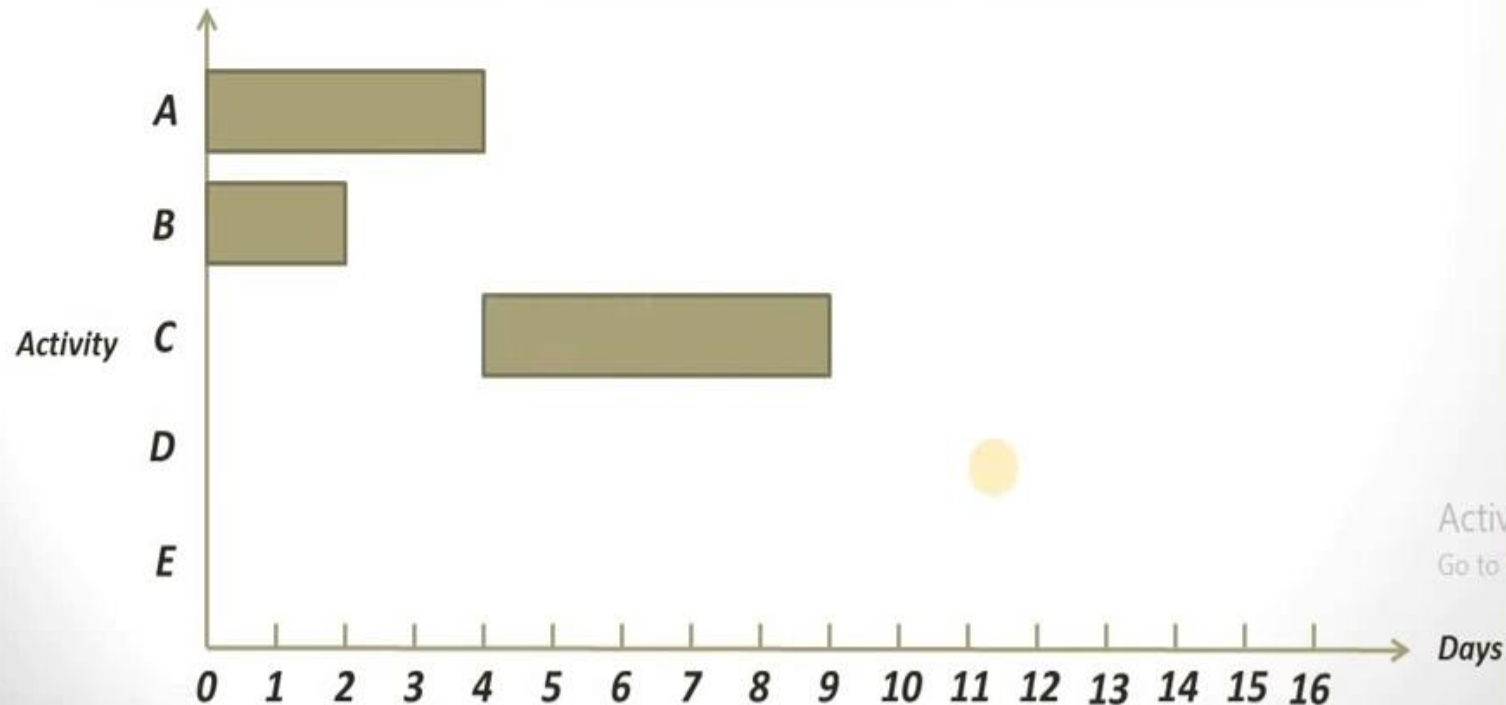
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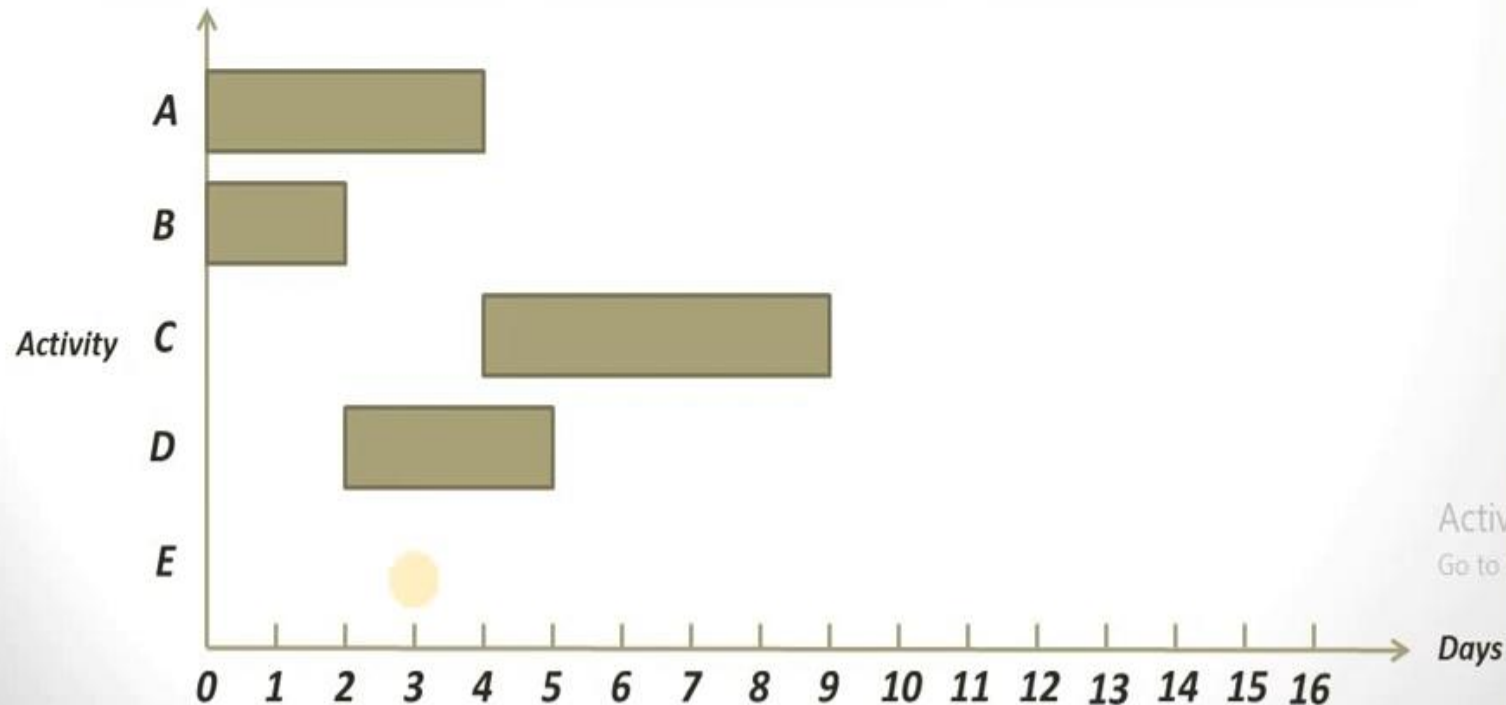
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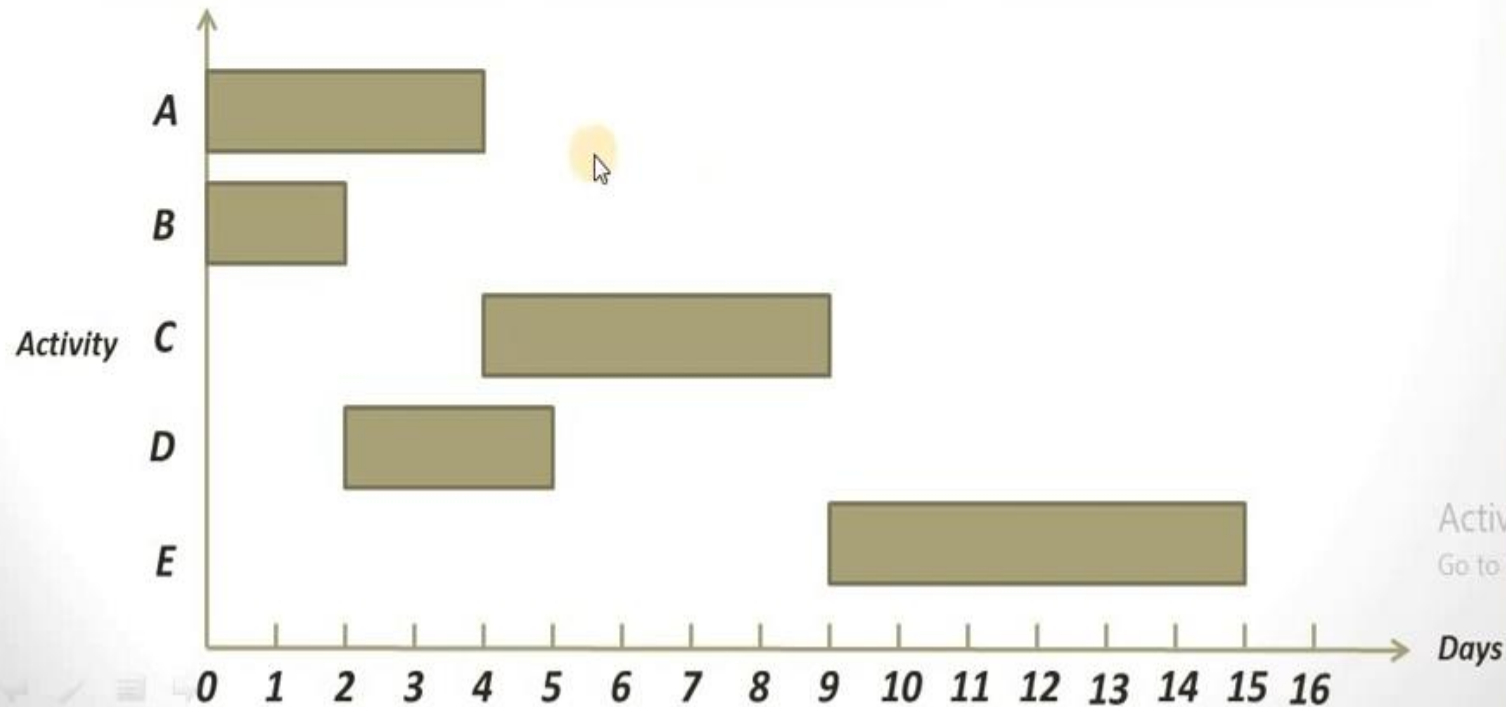
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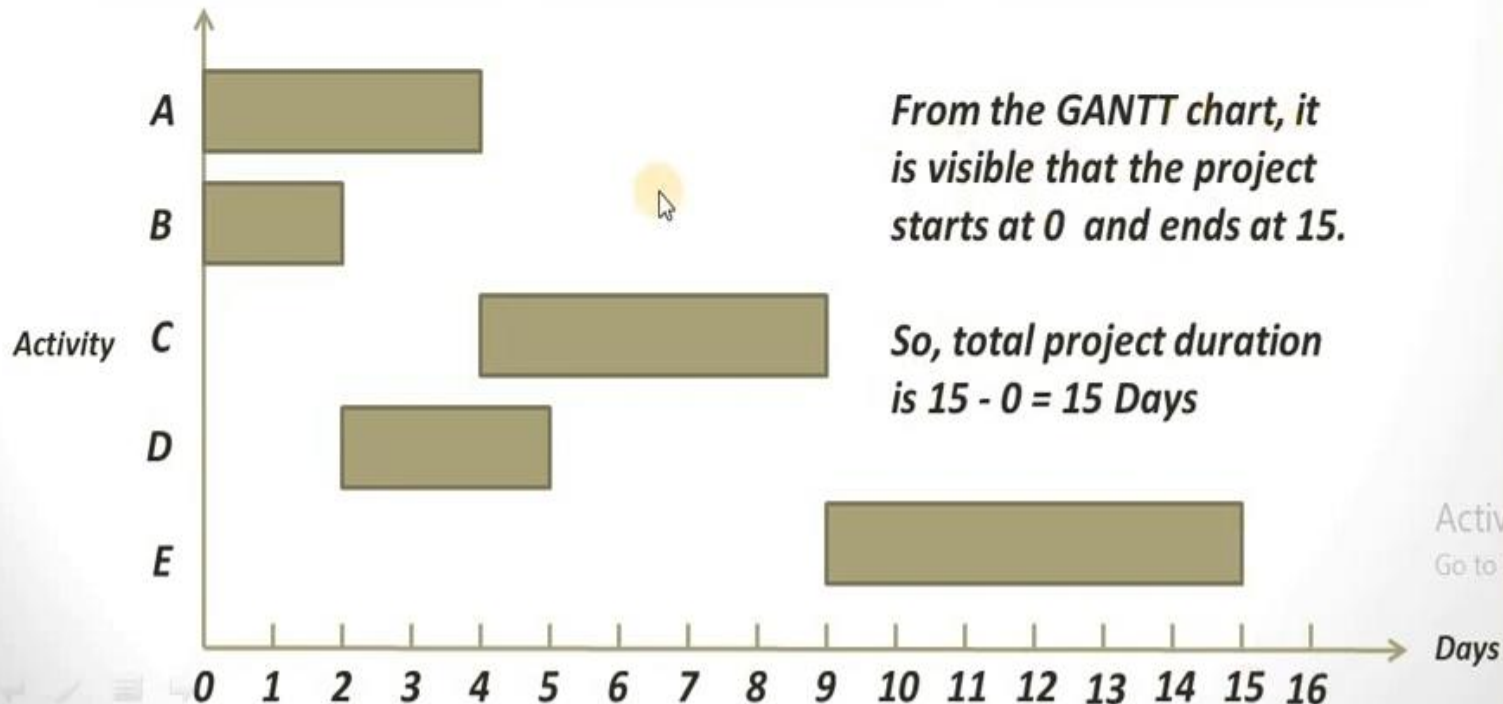
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A	None	4
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E	C, D	6



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GANTT Chart Examples

Activity	Predecessor	Duration
A Conduct interviews	None	3
B Administer questionnaires	A	4
C Read company reports	None	4
D Analyze data flow	B, C	8
E Introduce prototype	B, C	5
F Observe reactions to prototype	E	3
G Perform cost-benefit analysis	D	3
H Prepare proposal	F, G	2
I Present proposal	H	2

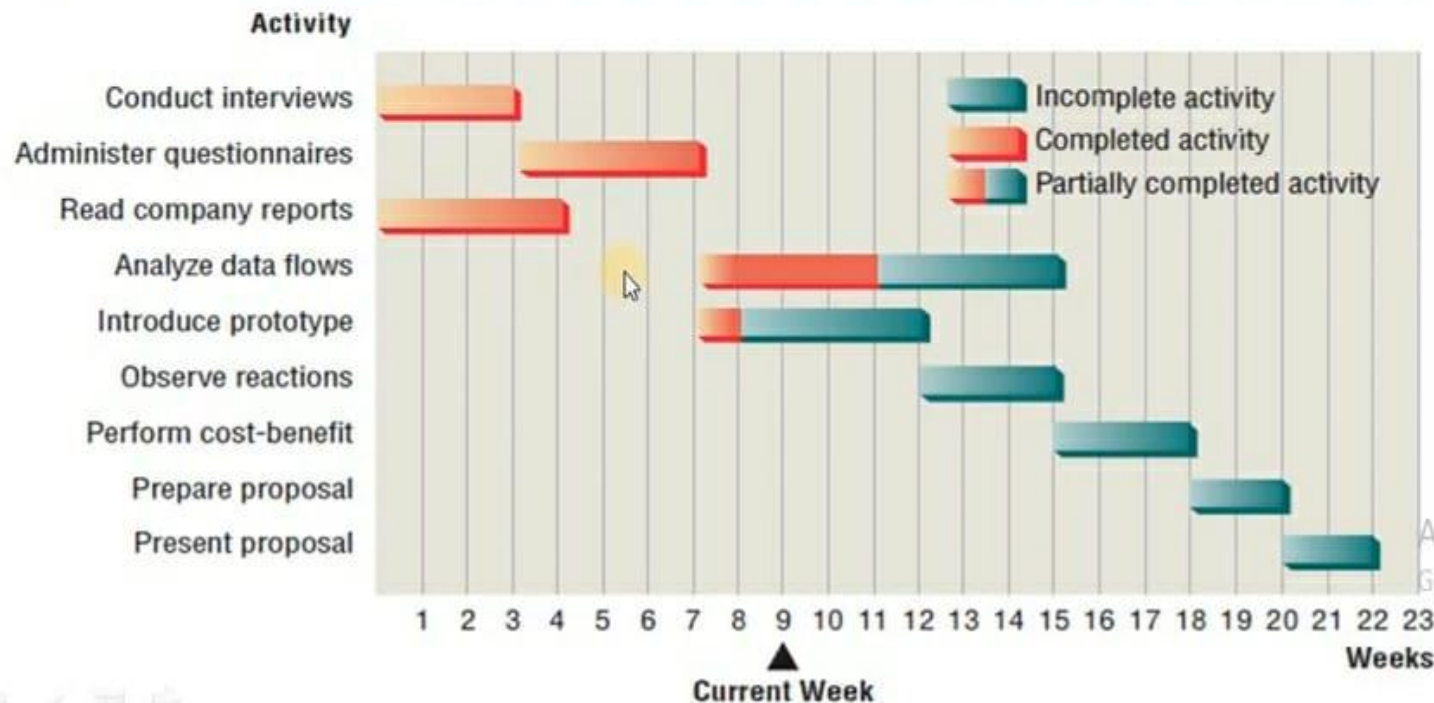
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GANTT Chart Examples

Activity	Predecessor	Duration
A Conduct interviews	None	3
B Administer questionnaires	A	4
C Read company reports	None	4
D Analyze data flow	B, C	8
E Introduce prototype	B, C	5
F Observe reactions to prototype	E	3
G Perform cost-benefit analysis	D	3
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Advantages of GANTT Chart

- Simple and easy to use.
- Lends itself to worthwhile and effective communication to the end users especially for the non-technical people.
- Bars are drawn to scale, that is the size of the bar indicates the relative duration for each task.

Disadvantages of GANTT Chart

- Difficult to identify the precedence order.
- Difficult to identify the critical activities and thus the critical path of the project.
- Difficult to determine the slack time.

