



AMITY UNIVERSITY
— **UTTAR PRADESH** —

LAB RECORD

BACHELOR OF TECHNOLOGY

B.Tech. CS&E Semester (VII)

(Academic Session -)

Course Title :

Course Code :

Enrollment No. :

Name of Student :

Date of Submission :

Signature of Student :

Grade/Marks Obtained :

Faculty Name & Signature :

**Department of Computer Science & Engineering
Amity School of Engineering & Technology
Amity University, Lucknow Campus**



Department of Computer Science & Engineering
Amity School of Engineering & Technology
Amity University, Lucknow Campus

Index

Lab Session	Date	Signature of Faculty	Remarks
<p>Lab Exercise 1. Create a project and perform following:</p> <ul style="list-style-type: none">• Set important project properties• Add at least 3 tasks (or more)• Connect at least 2 tasks.	19/07/23		
<p>Lab Exercise 2. Create a project and do the following tasks:</p> <ul style="list-style-type: none">• Add at least 5 tasks (or more)• Connect at least 2-3 tasks.• Create a calendar for your project• Define working and non-working days• Define holidays• Explore different calendar options available with calendar• Create your own calendar• Associate your calendar to your tasks and resources	02/08/23		

<p>Lab Exercise 3. Create a new project and perform following activities:</p> <ul style="list-style-type: none"> ● Add tasks ● Indent at least 2 tasks ● Link indented tasks ● Add resources ● Add costs to resources 	09/08/23		
<p>Lab Exercise 4. Design your own project with master tasks, dependent tasks and resources.</p>	16/08/23		
<p>Lab Exercise 5. Suppose you work as project manager in a company, which has made a contract about planning and conducting a new automatized inventory control system. Now you have to prepare a project schedule, calculate the total duration of the project, define the resources needed as a function of time and evaluate the project costs (Refer table 2 for cost of individual resources). You must assume in each exercise five-day workweek (with holidays). Also draw Gantt and PERT chart for the project. Make your own assumptions if any.</p>	23/08/23		
<p>Lab Exercise 6. Create a new project and perform the following:</p> <ul style="list-style-type: none"> ● Using the SPM – manage, plan and organize the project. ● Plan and organize the software and split the task. 	06/09/23		

<ul style="list-style-type: none"> ● Generate the following types of reports: <ul style="list-style-type: none"> ○ Project Details ○ Resource Information ○ Task Information ○ Who Does What 			
Lab Exercise 7. Create a software project and move and copy tasks in that project.	13/09/23		
Lab Exercise 8. Create a project and save the baseline of the project, review the critical path and draw the checkpoints and milestones of the project.	20/09/23		
Lab Exercise 9. Create a project and perform time estimation of tasks, set task dependencies & constraints.	27/09/23		
Lab Exercise 10. Create a project and input and select various resources. Also set the notes for resources.	03/10/23		

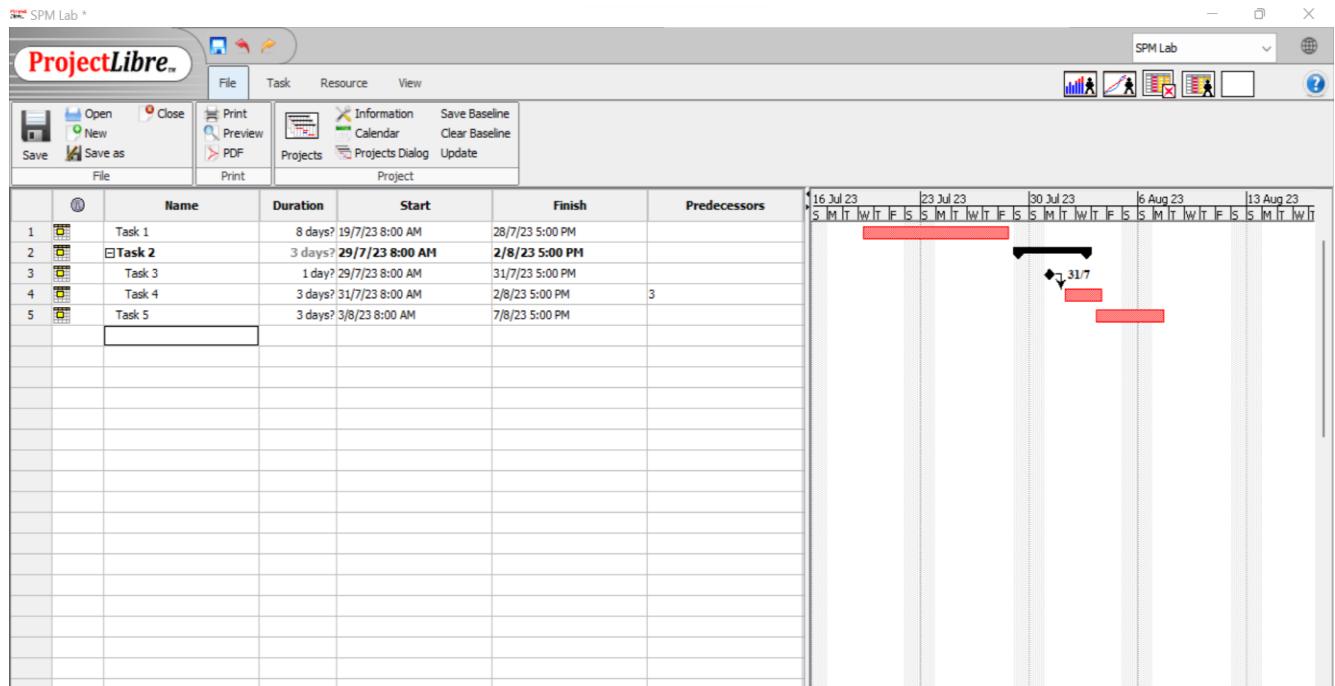
Open Ended Lab Sessions	Date	Signature of Faculty	Remarks
Open Lab Exercise 1. Consider the case study of Insurance Claim Processing perform the following tasks: 1. Make a suitable project calendar for the same and declare essential holidays.	04/10/23		

<p>2. Prepare a Gantt Chart and establish relationships for the activities.</p> <p>3. Analyze the resources utilization total cost for setting up this new business.</p> <p>4. Analyze the actual start for each activity and create a baseline for the project.</p> <p>5. Generate essential reports, which includes resource utilization, project progress, and cost, incurred to each phase.</p>			
<p>Open Lab Exercise 2. Consider the case study of Evaluating Offshoring Strategy for HR Functions:</p> <p>1. Make a suitable project calendar for the same and declare essential holidays.</p> <p>2. Prepare a Gantt Chart and establish relationships for the activities.</p> <p>3. Analyze the resources utilization total cost for setting up this new business.</p> <p>4. Analyze the actual start for each activity and create a baseline for the project.</p> <p>5. Generate essential reports, which includes resource utilization, project progress, and cost, incurred to each phase.</p>	11/10/23		

Experiment 1 Create a project and perform following:

- Set important project properties.
- Add at least 3 tasks (or more)
- Connect at least 2 tasks.

Step 1: Enter task names and durations.



Step 2: Add the predecessors of the tasks.

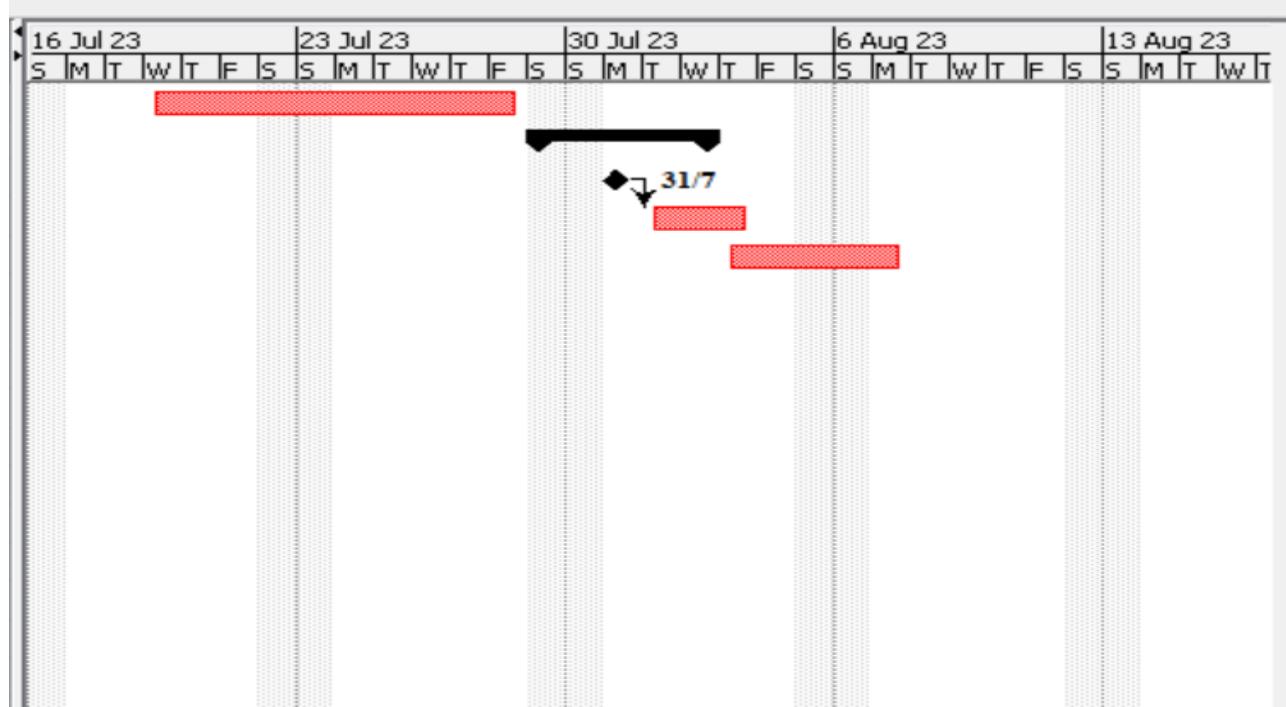
Step 3: Open calendar and select new and set name.

Step 4: Define Non-working days, special working days or times, holidays, etc. 5 working days.

Step 5: Add the calendars to the tasks. We can add different calendars to different tasks.

Step 6: Add the resources to the project and their respective tasks and costs.

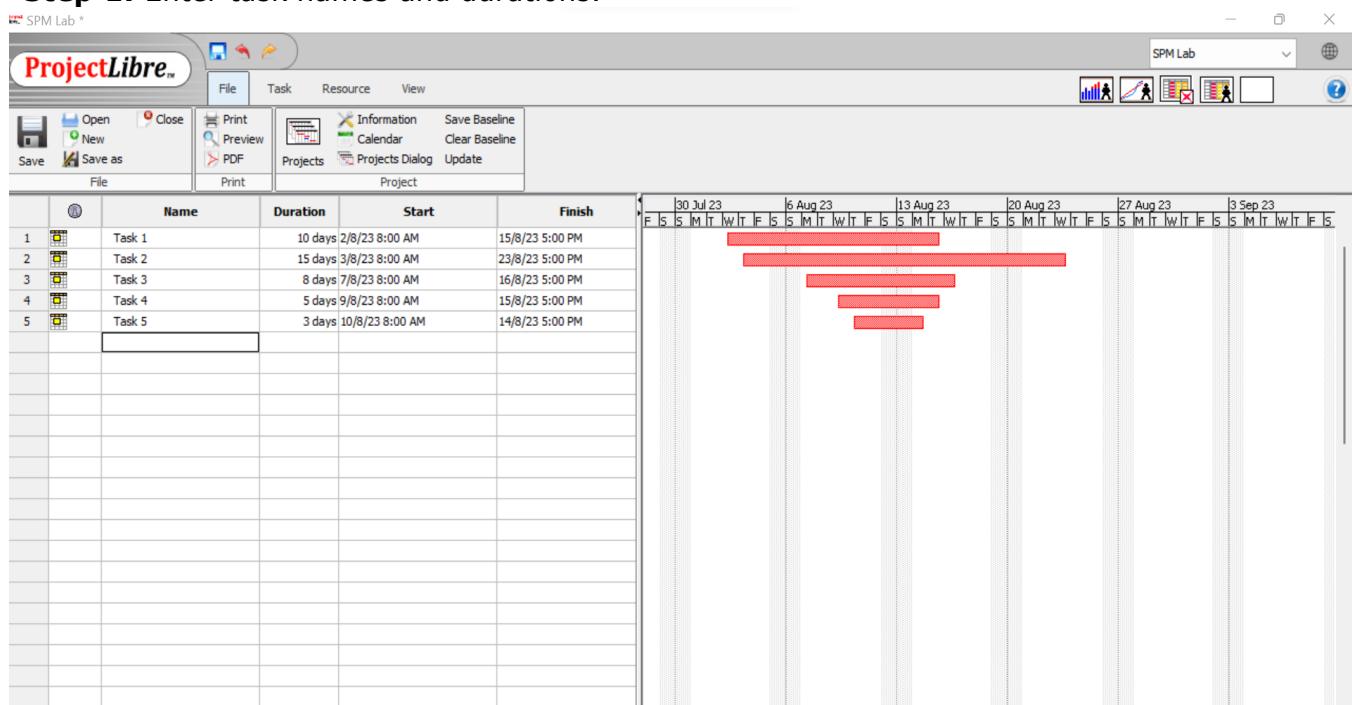
GANTT CHART



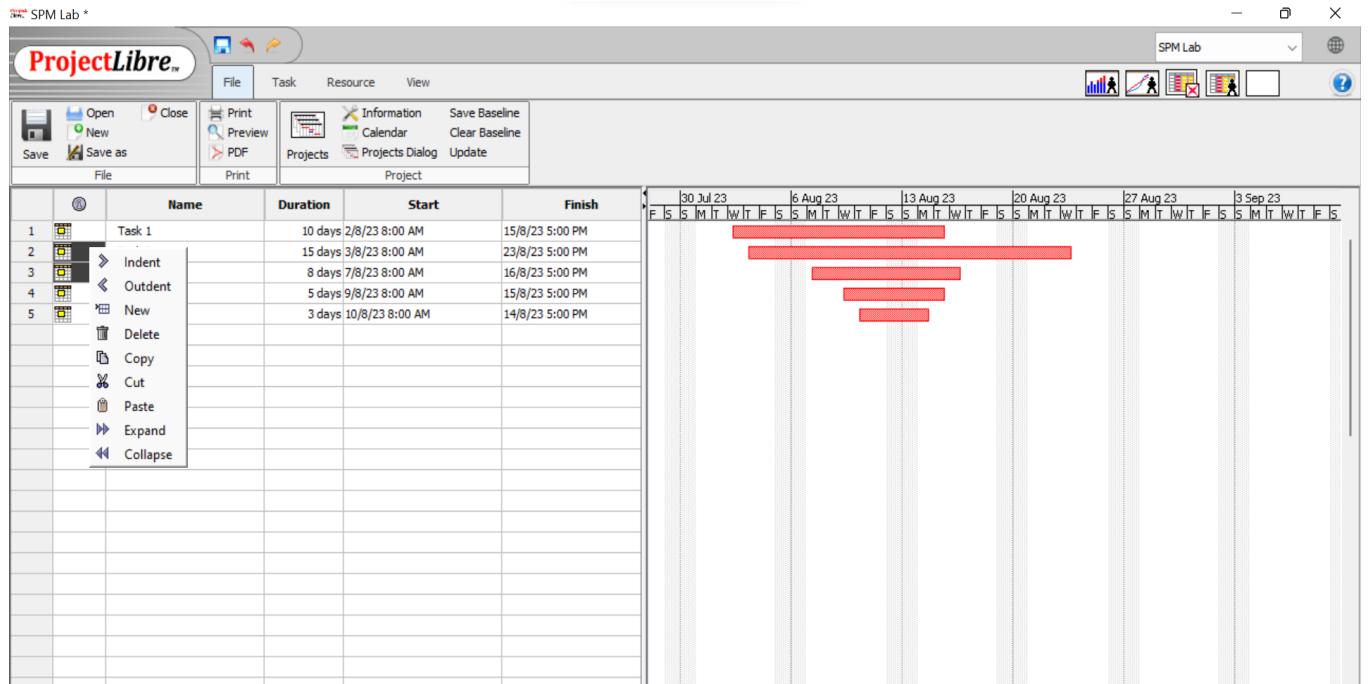
Experiment 2 Create a project and perform the following tasks:

- Add at least 5 tasks (or more)
- Connect at least 2-3 tasks.
- Create a calendar for your project
- Define working and non-working days
- Define holidays
- Explore different calendar options available with calendar

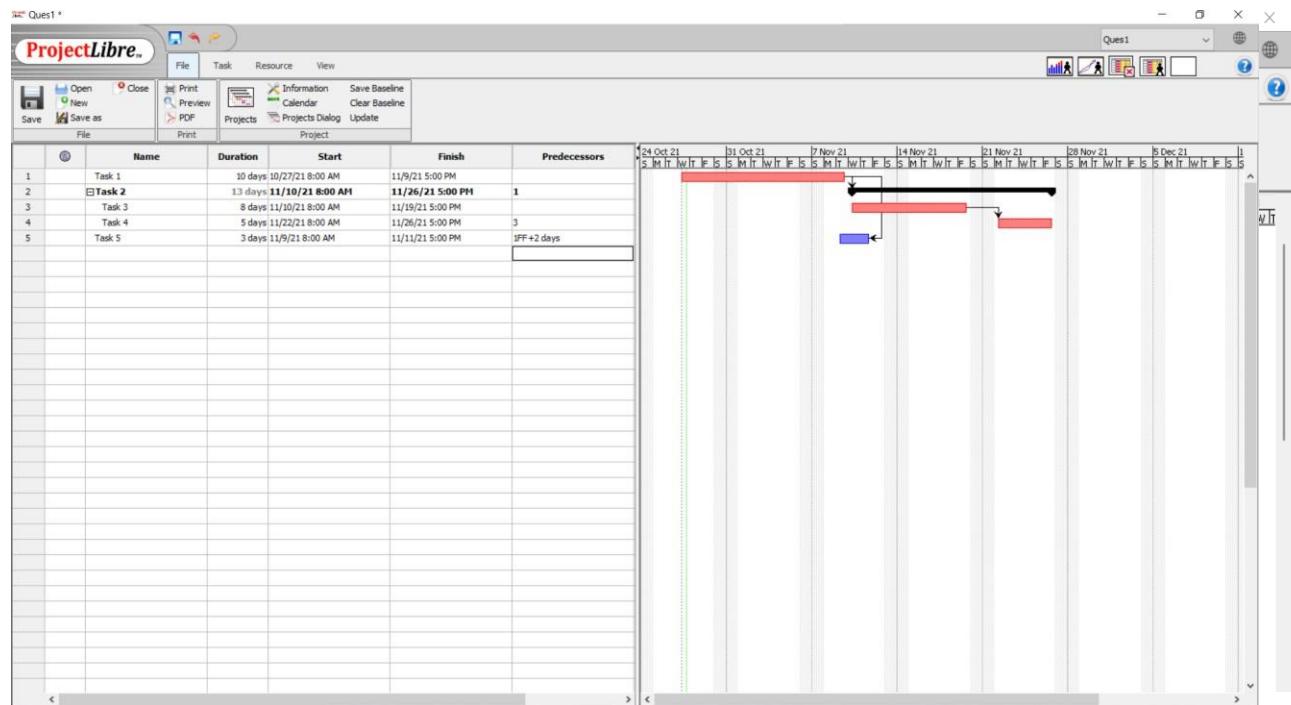
Step 1: Enter task names and durations.



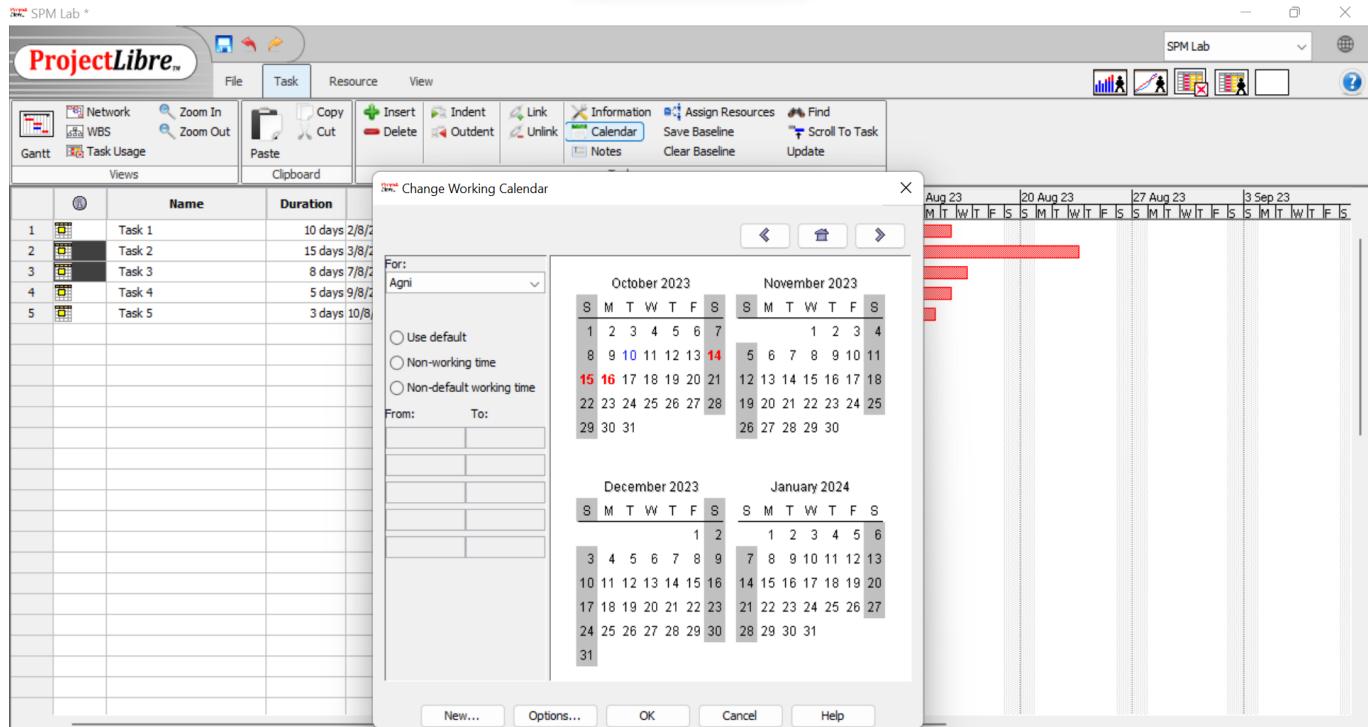
Step 2: We can indent tasks to indicate sub-tasks. And I've made Task 3 and Task 4 as sub-tasks of Task 2.



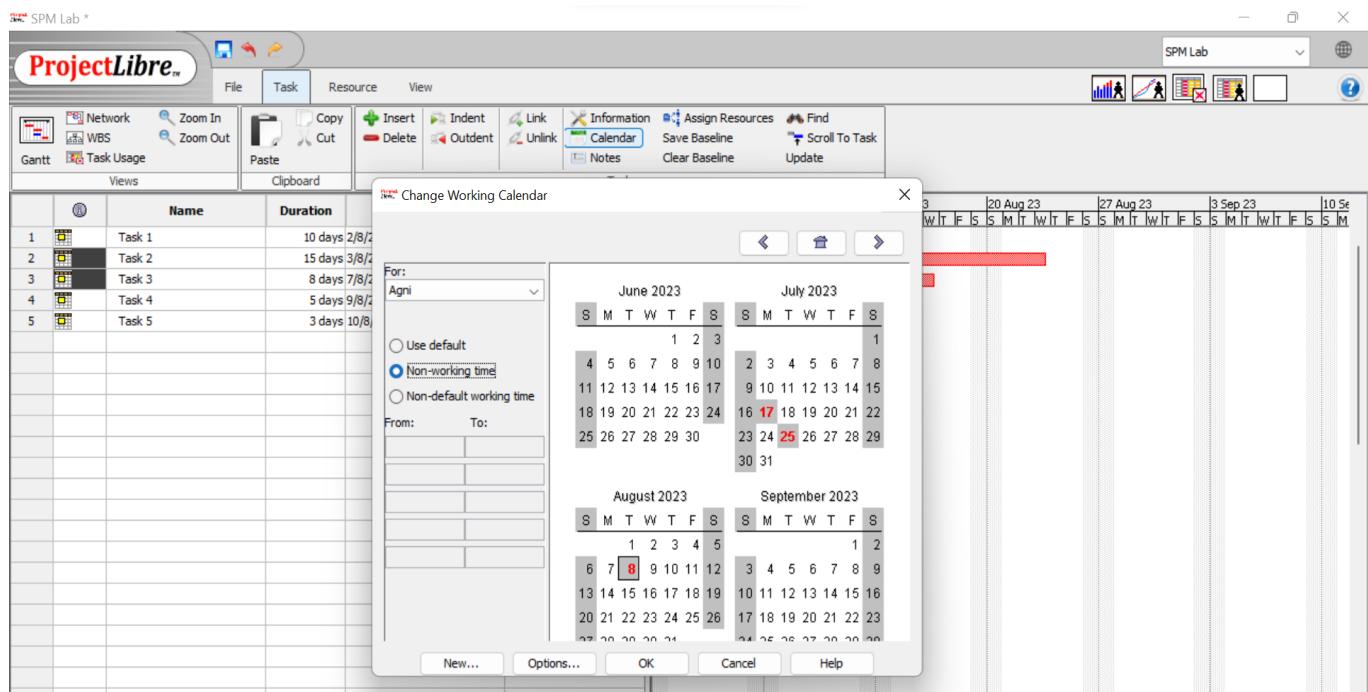
Step 3: Add the predecessors of the tasks.



Step 4: Open calendar and select new and set name.



Step 5: Define Non-working days, special working days or times, holidays, etc.



ProjectLibre - Ques1

Change Working Calendar

For: MyCal

Use default

Non-working time

Non-default working time

From: To:

8:00 12:00
13:00 17:00

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

New... Options... OK Cancel Help

Task List

#	Name	Duration	Start	Finish	Predecessors
1	Task 1	10 days	10/27/21 8:00 AM	11/9/21 5:00 PM	
2	Task 2	13 days	11/10/21 8:00 AM	11/26/21 5:00 PM	1
3	Task 3	8 days	11/10/21 8:00 AM	11/19/21 5:00 PM	
4	Task 4	5 days	11/22/21 8:00 AM	11/26/21 5:00 PM	3
5	Task 5	3 days	11/9/21 8:00 AM	11/11/21 5:00 PM	IFF+2 days

Timeline

ProjectLibre - Ques1

Change Working Calendar

For: MyCal

Use default

Non-working time

Non-default working time

From: To:

8:00 12:00
13:00 17:00

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

New... Options... OK Cancel Help

Task List

#	Name	Duration	Start	Finish	Predecessors
1	Task 1	10 days	10/27/21 8:00 AM	11/9/21 5:00 PM	
2	Task 2	13 days	11/10/21 8:00 AM	11/26/21 5:00 PM	1
3	Task 3	8 days	11/10/21 8:00 AM	11/19/21 5:00 PM	
4	Task 4	5 days	11/22/21 8:00 AM	11/26/21 5:00 PM	3
5	Task 5	3 days	11/9/21 8:00 AM	11/11/21 5:00 PM	IFF+2 days

Timeline

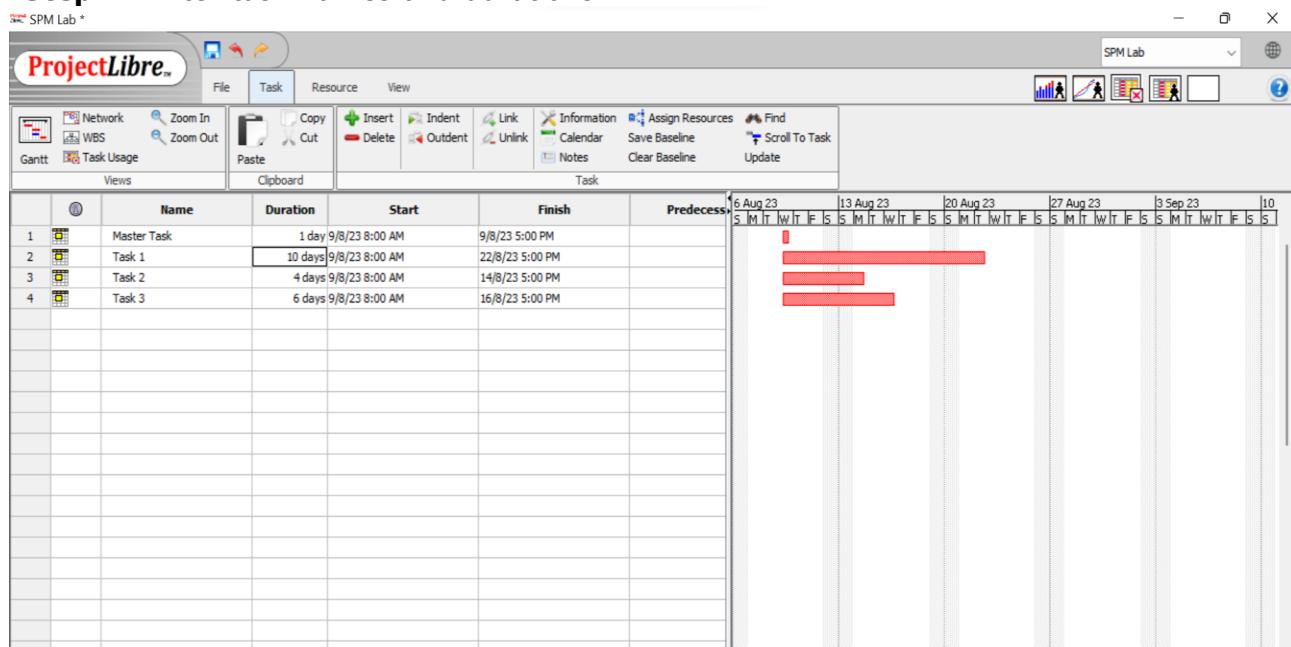
Step 6: Add the calendars to the tasks. We can add different calendars to different tasks.

The screenshot shows the ProjectLibre application interface. The main window displays a Gantt chart with five tasks: Task 1 (10 days), Task 2 (15 days, currently selected), Task 3 (8 days), Task 4 (5 days), and Task 5 (3 days). The Task 2 row is highlighted with a red background. A 'Task Information' dialog box is open over the Gantt chart, centered on Task 2. The dialog has tabs for General, Predecessors, Successors, Resources, Advanced, and Notes. The General tab is active, showing the task name 'Task 2'. Under the 'Type' section, 'Fixed Units' is selected. Under 'Task Calendar', a dropdown menu is open, showing options: Standard, 24 Hours, Night Shift, and Agni. The 'Agni' option is highlighted with a blue selection bar. Other visible settings include 'Effort Driven' checked and 'Ignore Resource Calendar' unchecked. At the bottom of the dialog are 'Close' and 'Help' buttons.

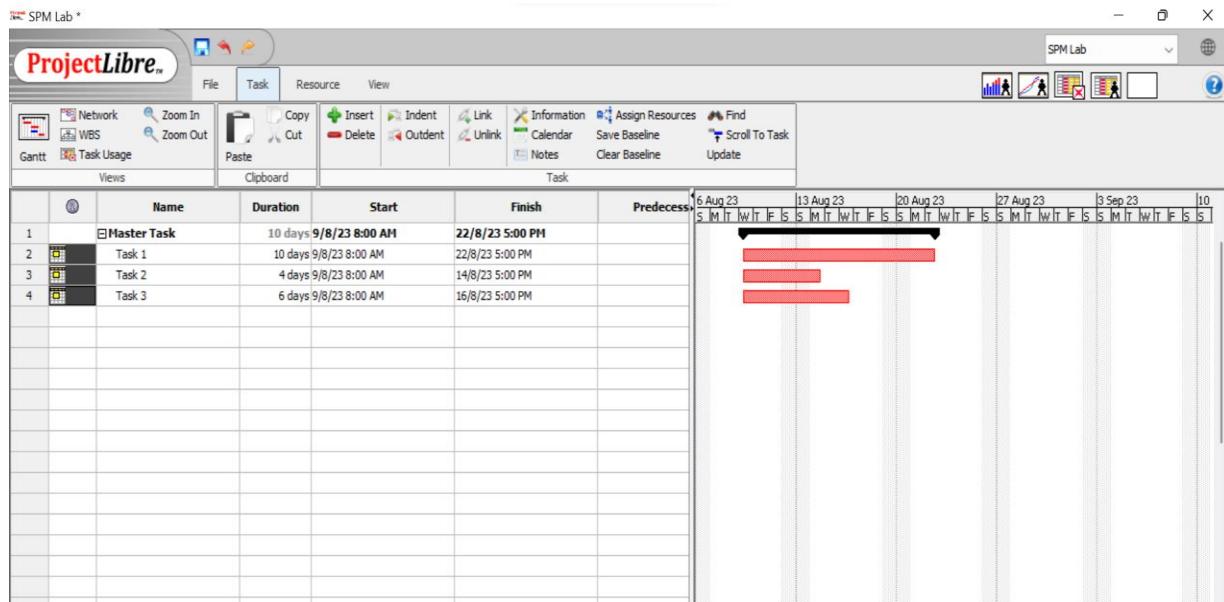
Experiment 3: Create a new project and perform following activities:

- Add tasks
- Indent at least 2 tasks
- Link indented tasks
- Add resources
- Add costs to resources

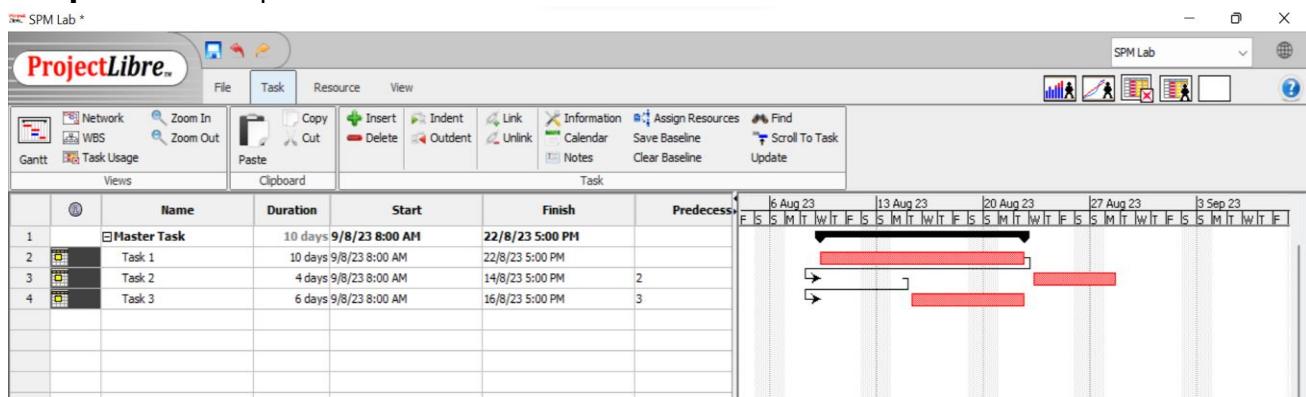
Step 1: Enter task names and durations



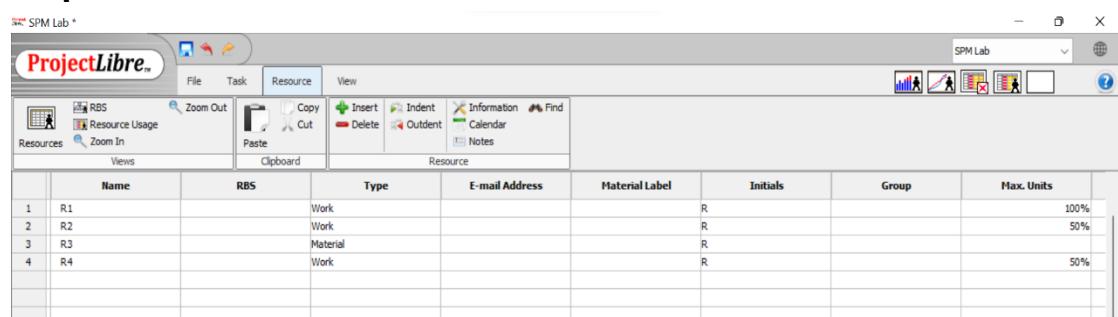
Step 2: Identing The task



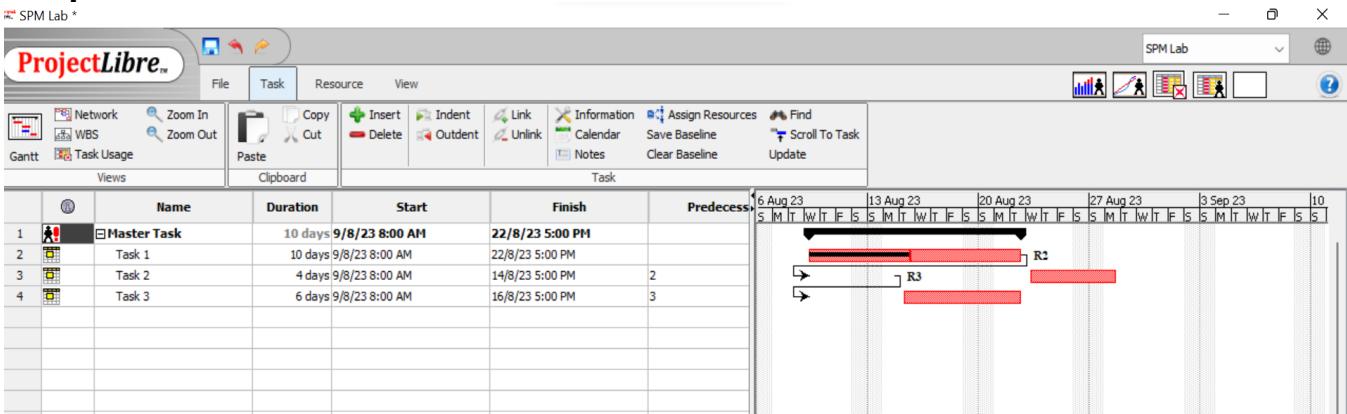
Step 3: Add the predecessors of the tasks.



Step 4: Add resources



Step 5: Add costs of resources



Experiment 4: Design your own project with master tasks, dependent tasks and resources.

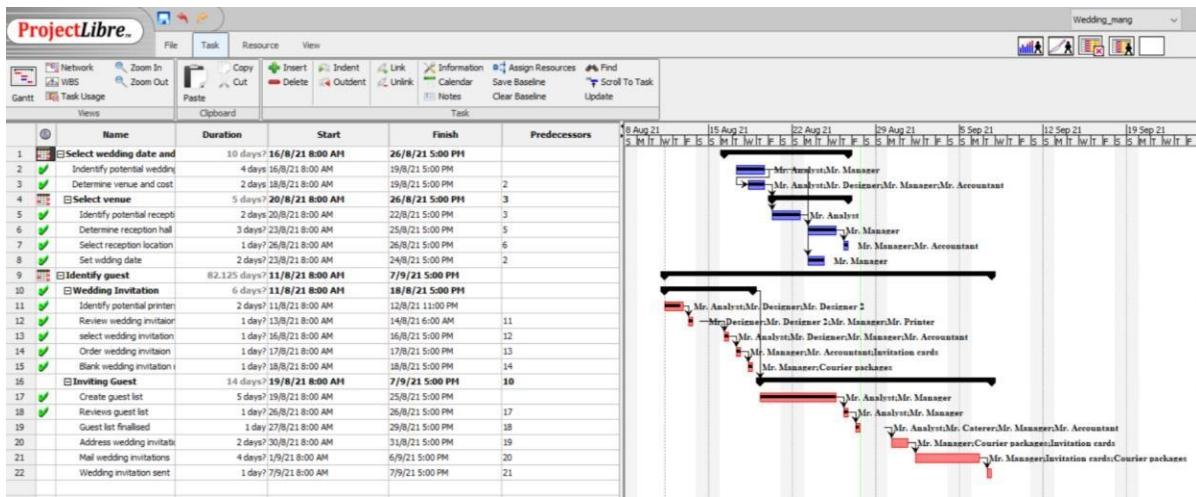
Step 1: Enter task names and durations

	Name	Duration	Start	Finish
1	Select wedding date and location	14.597 days?	11/8/21 8:00 AM	27/8/21 1:46 PM
2	Identify potential wedding venues	4 days	16/8/21 8:00 AM	19/8/21 5:00 PM
3	Determine venue and cost and availability	2 days	18/8/21 8:00 AM	19/8/21 5:00 PM
4	Select venue	1 day?	19/8/21 5:00 PM	20/8/21 5:00 PM
5	Identify potential reception locations	2 days	20/8/21 8:00 AM	22/8/21 5:00 PM
6	Determine reception hall cost and availability	3 days?	23/8/21 8:00 AM	25/8/21 5:00 PM
7	Select reception location	1 day?	26/8/21 8:00 AM	26/8/21 5:00 PM
8	Set wedding date	2 days?	23/8/21 8:00 AM	24/8/21 5:00 PM
9	Identify guest	1 day?	27/8/21 8:00 AM	27/8/21 4:00 PM
10	Wedding Invitation	1 day?	11/8/21 8:00 AM	11/8/21 5:00 PM
11	Identify potential printers	2 days?	11/8/21 8:00 AM	12/8/21 11:00 PM
12	Review wedding invitation options	1 day?	13/8/21 8:00 AM	14/8/21 6:00 AM
13	select wedding invitation	1 day?	16/8/21 8:00 AM	16/8/21 5:00 PM
14	Order wedding invitation	1 day?	17/8/21 8:00 AM	17/8/21 5:00 PM
15	Blank wedding invitation received	1 day?	18/8/21 8:00 AM	18/8/21 5:00 PM
16	Inviting Guest	1 day?	27/8/21 8:00 AM	27/8/21 5:00 PM
17	Create guest list	5 days?	19/8/21 8:00 AM	25/8/21 5:00 PM
18	Reviews guest list	1 day?	26/8/21 8:00 AM	26/8/21 5:00 PM
19	Guest list finalised	1 day?	27/8/21 8:00 AM	29/8/21 5:00 PM
20	Address wedding invitations	2 days?	30/8/21 8:00 AM	31/8/21 5:00 PM
21	Mail wedding invitations	4 days?	1/9/21 8:00 AM	6/9/21 5:00 PM
22	Wedding invitation sent	1 day?	7/9/21 8:00 AM	7/9/21 5:00 PM

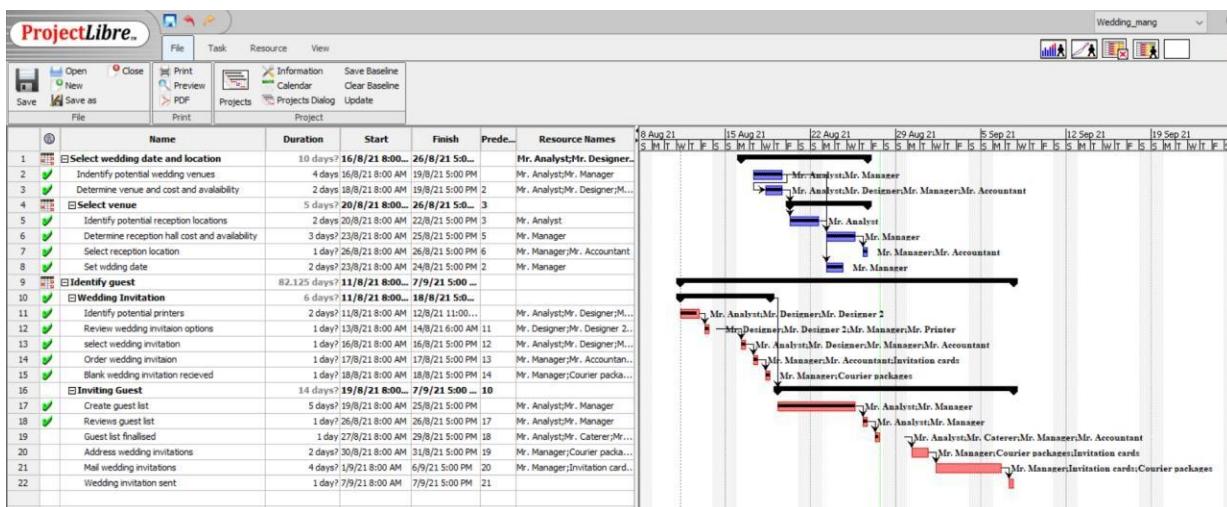
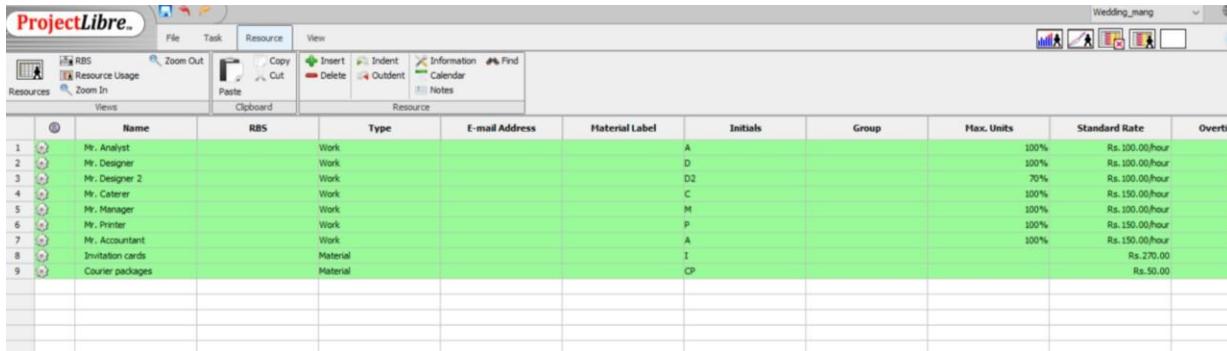
Step 2: Identifying The task

	Name	Duration	Start	Finish	Predecessor
1	Select wedding date and location	10 days?	16/8/21 8:00 AM	26/8/21 5:00 PM	
2	Identify potential wedding venues	4 days	16/8/21 8:00 AM	19/8/21 5:00 PM	
3	Determine venue and cost and availability	2 days	18/8/21 8:00 AM	19/8/21 5:00 PM	2
4	Select venue	5 days?	20/8/21 8:00 AM	26/8/21 5:00 PM	3
5	Identify potential reception locations	2 days	20/8/21 8:00 AM	22/8/21 5:00 PM	3
6	Determine reception hall cost and availability	3 days?	23/8/21 8:00 AM	25/8/21 5:00 PM	5
7	Select reception location	1 day?	26/8/21 8:00 AM	26/8/21 5:00 PM	6
8	Set wedding date	2 days?	23/8/21 8:00 AM	24/8/21 5:00 PM	2
9	Identify guest	82.125 days?	11/8/21 8:00 AM	7/9/21 5:00 PM	
10	Wedding Invitation	6 days?	11/8/21 8:00 AM	18/8/21 5:00 PM	
11	Identify potential printers	2 days?	11/8/21 8:00 AM	12/8/21 11:00 PM	
12	Review wedding invitation options	1 day?	13/8/21 8:00 AM	14/8/21 6:00 AM	11
13	select wedding invitation	1 day?	16/8/21 8:00 AM	16/8/21 5:00 PM	12
14	Order wedding invitation	1 day?	17/8/21 8:00 AM	17/8/21 5:00 PM	13
15	Blank wedding invitation received	1 day?	18/8/21 8:00 AM	18/8/21 5:00 PM	14
16	Inviting Guest	14 days?	19/8/21 8:00 AM	7/9/21 5:00 PM	10
17	Create guest list	5 days?	19/8/21 8:00 AM	25/8/21 5:00 PM	
18	Reviews guest list	1 day?	26/8/21 8:00 AM	26/8/21 5:00 PM	17
19	Guest list finalised	1 day?	27/8/21 8:00 AM	29/8/21 5:00 PM	18
20	Address wedding invitations	2 days?	30/8/21 8:00 AM	31/8/21 5:00 PM	19
21	Mail wedding invitations	4 days?	1/9/21 8:00 AM	6/9/21 5:00 PM	20
22	Wedding invitation sent	1 day?	7/9/21 8:00 AM	7/9/21 5:00 PM	21

Step 3: Add the predecessors of the tasks.

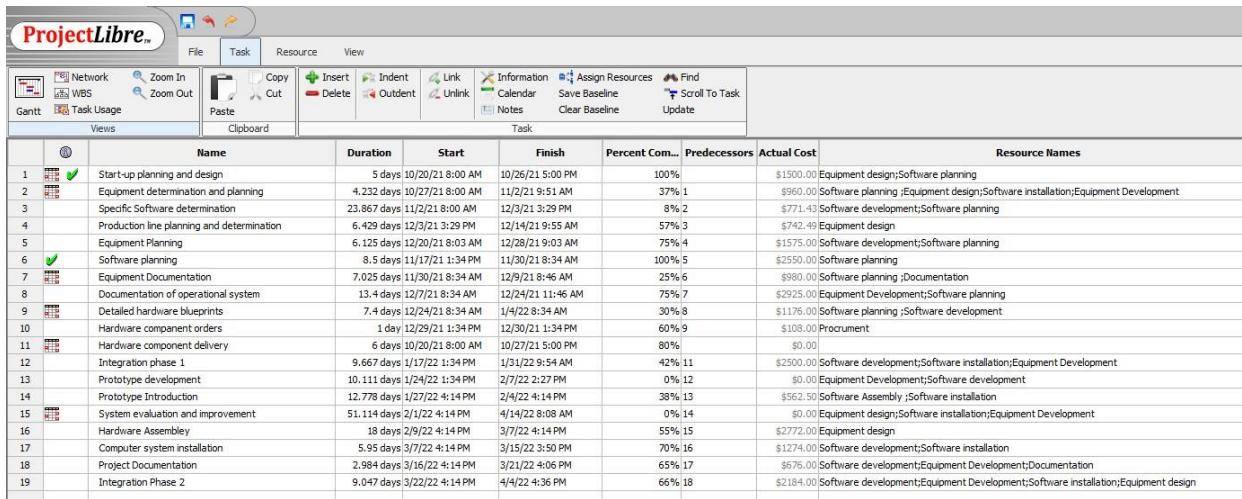


Step 4: Add resources



Experiment 5 Suppose you work as project manager in a company, which has made a contract about planning and conducting a new automated inventory control system. Now you have to prepare a project schedule, calculate the total duration of the project, define the resources needed as a function of time and evaluate the project costs (Refer table 2 for cost of individual resources). You must assume in each exercise five-day workweek (with holidays). Also draw Gantt and PERT charts for the project. Make your own assumptions if any.

Step 1: Enter task names and durations.



The screenshot shows the ProjectLibre application window. The menu bar includes File, Task, Resource, and View. The toolbar contains icons for Network, WBS, Task Usage, Zoom In, Zoom Out, Copy, Insert, Delete, Indent, Outdent, Link, Unlink, Information, Assign Resources, Find, Calendar, Save Baseline, Notes, Clear Baseline, and Update. Below the toolbar, there are tabs for Gantt and Task Usage, and a Views section with Task selected. The main area displays a table of tasks:

	Name	Duration	Start	Finish	Percent Com.	Predecessors	Actual Cost	Resource Names
1	Start-up planning and design	5 days	10/20/21 8:00 AM	10/26/21 5:00 PM	100%		\$1500.00	Equipment design;Software planning
2	Equipment determination and planning	4.232 days	10/27/21 8:00 AM	11/2/21 9:51 AM	37% 1		\$960.00	Software planning ;Equipment design;Software installation;Equipment Development
3	Specific Software determination	23.867 days	11/2/21 8:00 AM	12/21/21 3:29 PM	8% 2		\$771.43	Software development;Software planning
4	Production line planning and determination	6.429 days	12/3/21 3:29 PM	12/14/21 9:55 AM	57% 3		\$742.49	Equipment design
5	Equipment Planning	6.125 days	12/20/21 8:03 AM	12/28/21 9:03 AM	75% 4		\$1575.00	Software development;Software planning
6	Software planning	8.5 days	11/17/21 1:34 PM	11/30/21 8:34 AM	100% 5		\$2550.00	Software planning
7	Equipment Documentation	7.025 days	11/30/21 8:34 AM	12/9/21 8:46 AM	25% 6		\$980.00	Software planning ;Documentation
8	Documentation of operational system	13.4 days	12/7/21 8:34 AM	12/24/21 11:46 AM	75% 7		\$2925.00	Equipment Development;Software planning
9	Detailed hardware blueprints	7.4 days	12/24/21 8:34 AM	1/4/22 8:34 AM	30% 8		\$1176.00	Software planning ;Software development
10	Hardware component orders	1 day	12/29/21 1:34 PM	12/30/21 1:34 PM	60% 9		\$108.00	Procurement
11	Hardware component delivery	6 days	10/20/21 8:00 AM	10/27/21 5:00 PM	80%		\$0.00	
12	Integration phase 1	9.667 days	1/17/22 1:34 PM	1/31/22 9:54 AM	42% 11		\$2500.00	Software development;Software installation;Equipment Development
13	Prototype development	10.111 days	1/24/22 1:34 PM	2/7/22 2:27 PM	0% 12		\$0.00	Equipment Development;Software development
14	Prototype Introduction	12.778 days	1/27/22 4:14 PM	2/4/22 4:14 PM	38% 13		\$562.50	Software Assembly ;Software installation
15	System evaluation and improvement	51.114 days	2/1/22 4:14 PM	4/14/22 8:08 AM	0% 14		\$0.00	Equipment design;Software installation;Equipment Development
16	Hardware Assembly	18 days	2/9/22 4:14 PM	3/7/22 4:14 PM	55% 15		\$2772.00	Equipment design
17	Computer system installation	5.95 days	3/7/22 4:14 PM	3/15/22 3:50 PM	70% 16		\$1274.00	Software development;Software installation
18	Project Documentation	2.984 days	3/16/22 4:14 PM	3/21/22 4:06 PM	65% 17		\$975.00	Software development;Equipment Development;Documentation
19	Integration Phase 2	9.047 days	3/22/22 4:14 PM	4/4/22 4:36 PM	66% 18		\$2184.00	Software development;Equipment Development;Software installation;Equipment design

Step 2: Add the predecessors of the tasks.

Step 3: Open calendar and select new and set name.

Step 4: Define Non-working days, special working days or times, holidays, etc. 5 working days.

Step 5: Add the calendars to the tasks. We can add different calendars to different tasks.

Step 6: Add the resources to the project and their respective tasks and costs.

ProjectLibre SPM lab Case Study

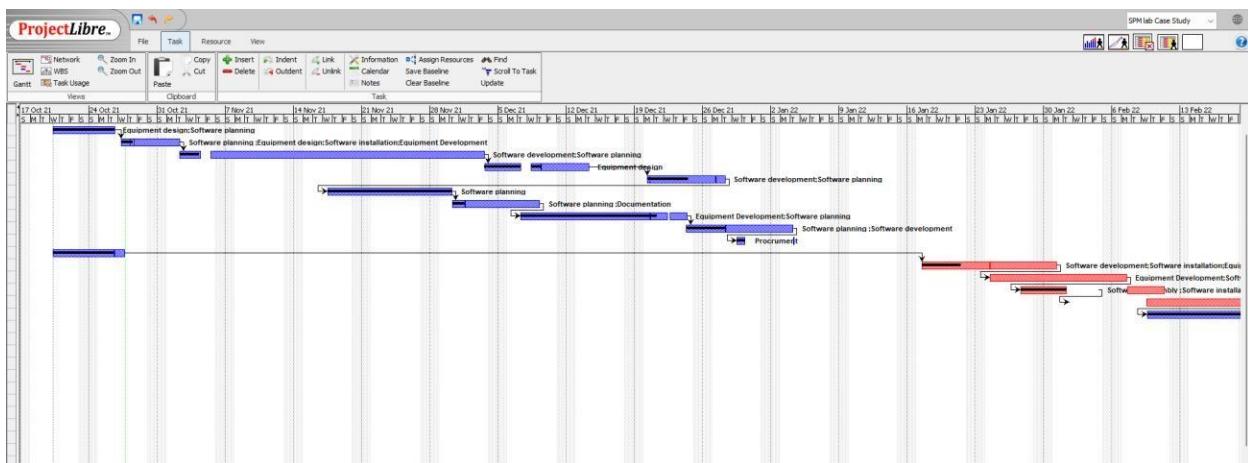
File Task Resource View

RBS Resource Usage Zoom In Zoom Out Copy Insert Indent Information Find
Delete Outdent Calendar Notes
Paste Clipboard

Views Resource

	Name	RBS	Type	E-mail Address	Material Label	Initials	Group	Max. Units	Standard Rate	Overtime Rate	Cost Per Use	Accrue At
1	Software planning		Work			S		100%	\$200.00/day	\$0.00/hour	\$0.00/Prioritized	St
2	Equipment design		Work					100%	\$200.00/day	\$0.00/hour	\$0.00/Prioritized	St
3	Software installation		Work			S		100%	\$200.00/day	\$0.00/hour	\$0.00/Prioritized	St
4	Software assembly		Work			S		100%	\$200.00/day	\$0.00/hour	\$0.00/Prioritized	St
5	Documentation		Work			D		100%	\$200.00/day	\$0.00/hour	\$0.00/Prioritized	St
6	Procurement		Work			P		100%	\$180.00/day	\$0.00/hour	\$0.00/Prioritized	St
7	Software development		Work			S		100%	\$200.00/day	\$0.00/hour	\$0.00/Prioritized	St
8	Equipment Development		Work			E		100%	\$240.00/day	\$0.00/hour	\$0.00/Prioritized	St

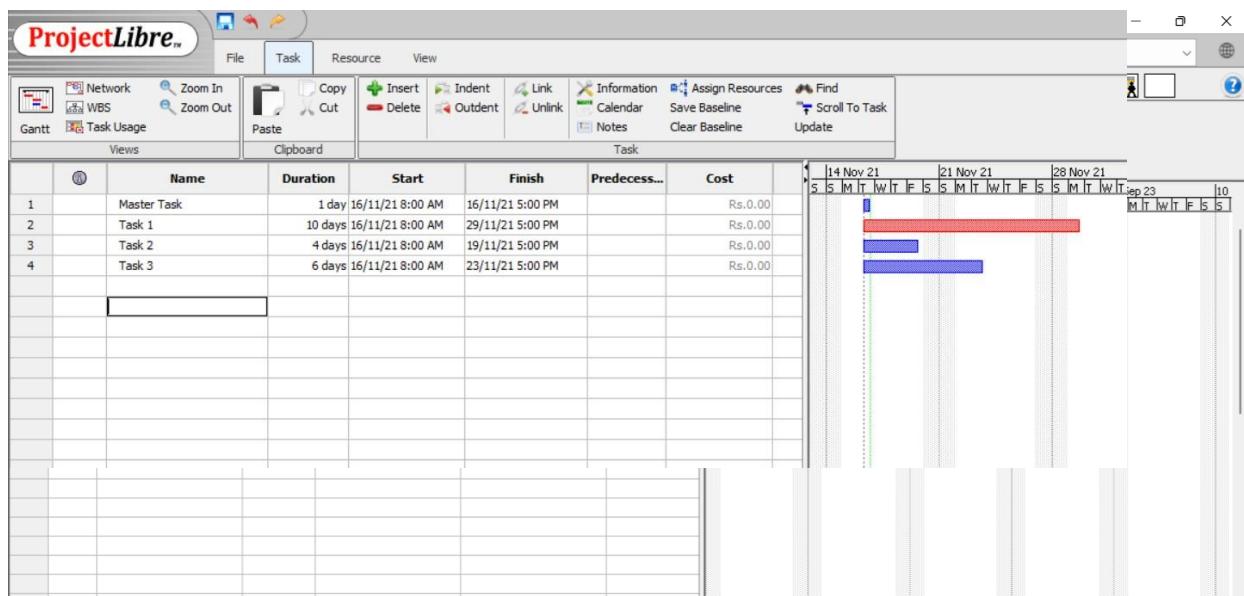
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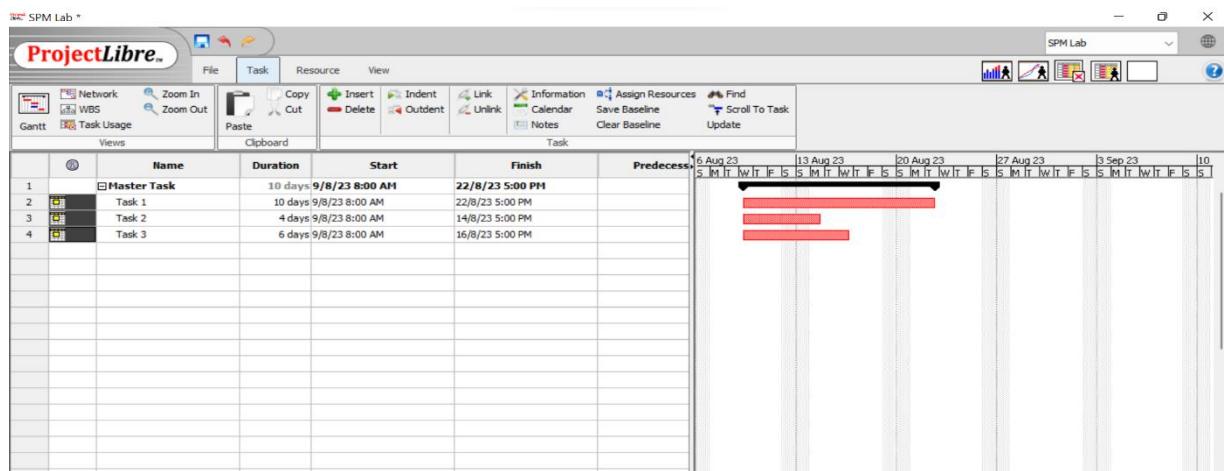
Experiment 6: Create a new project and perform the following:

- Using the SPM – manage, plan and organize the project.
- Plan and organize the software and split the task.
- Generate the following types of reports:
 - o Project Details
 - o Resource Information
 - o Task Information
 - o Who Does What

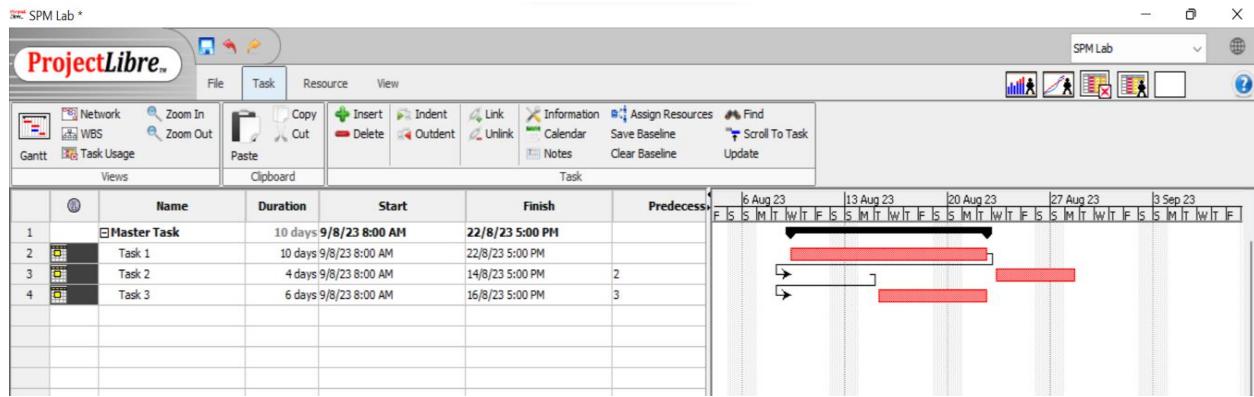
Step 1: Enter task names and durations



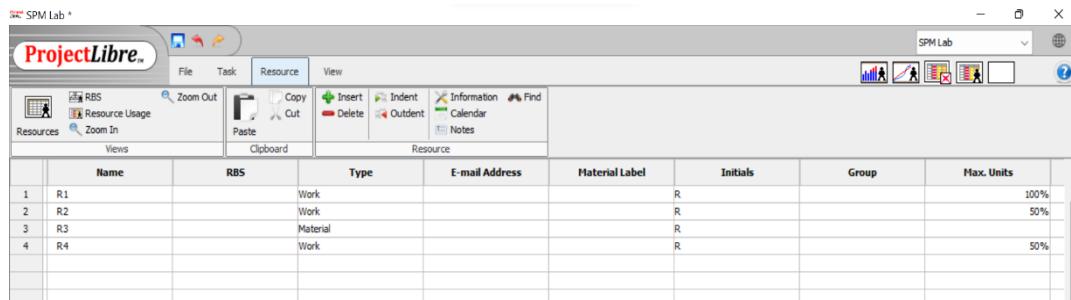
Step 2: Identing The task



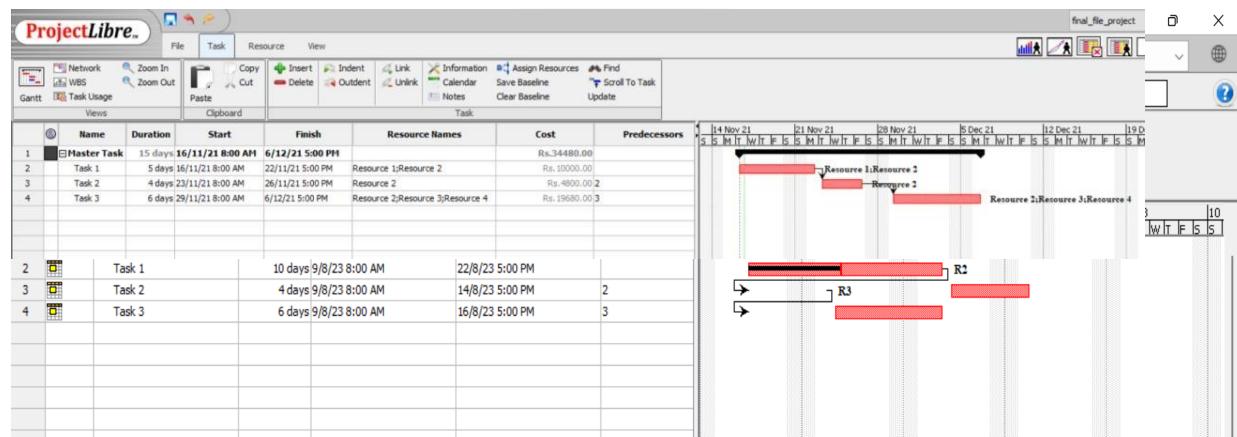
Step 3: Add the predecessors of the tasks.



Step 4: Add resources



Step 5: Add costs of resources



Step 6: Add project details

Report: Project Details

final_file_project

Dates

Start	16/11/21 8:00 AM	Finish	6/12/21 5:00 PM
Baseline Start		Baseline Finish	
Actual Start		Actual Finish	

Duration

Scheduled	15 days	Remaining	15 days
Baseline	0 days	Actual	0 days
		Percent Complete	0%

Work

Scheduled	256 hours	Remaining	256 hours
Baseline	0 hours	Actual	0 hours

Costs

Scheduled	Rs.34480.00	Remaining	Rs.34480.00
Baseline	Rs.0.00	Actual	Rs.0.00
		Variance	Rs.0.00

Step 7: Add resource information

Report: Resource Information Columns: Default

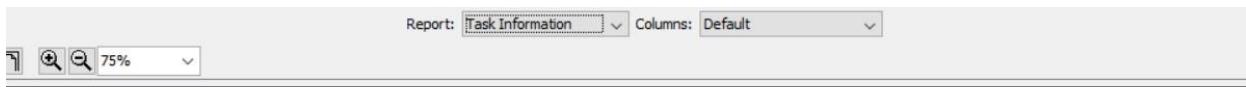
75%

Resource Information

ID	Name	RBS	Type	E-mail Address	Material Label
1	Resource 1		Work		
2	Resource 2		Work		
3	Resource 3		Work		
4	Resource 4		Work		

Step 8: Add task information

Report: Task Information Columns: Default

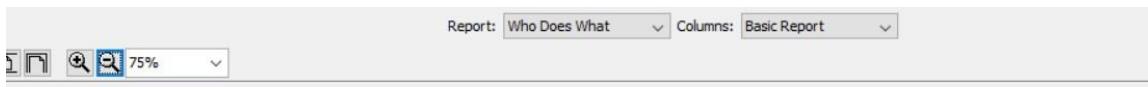


Task Information

ID	Name	Duration	Start	Finish	Predecessors	Resource Names
1	Master Task	15 days	16/11/21 8:00 AM	6/12/21 5:00 PM		
2	Task 1	5 days	16/11/21 8:00 AM	22/11/21 5:00 PM		Resource 1;Resource 2
3	Task 2	4 days	23/11/21 8:00 AM	26/11/21 5:00 PM	2	Resource 2
4	Task 3	6 days	29/11/21 8:00 AM	6/12/21 5:00 PM	3	Resource 2;Resource 3;

Step 9: Add who does that

Report: Who Does What Columns: Basic Report

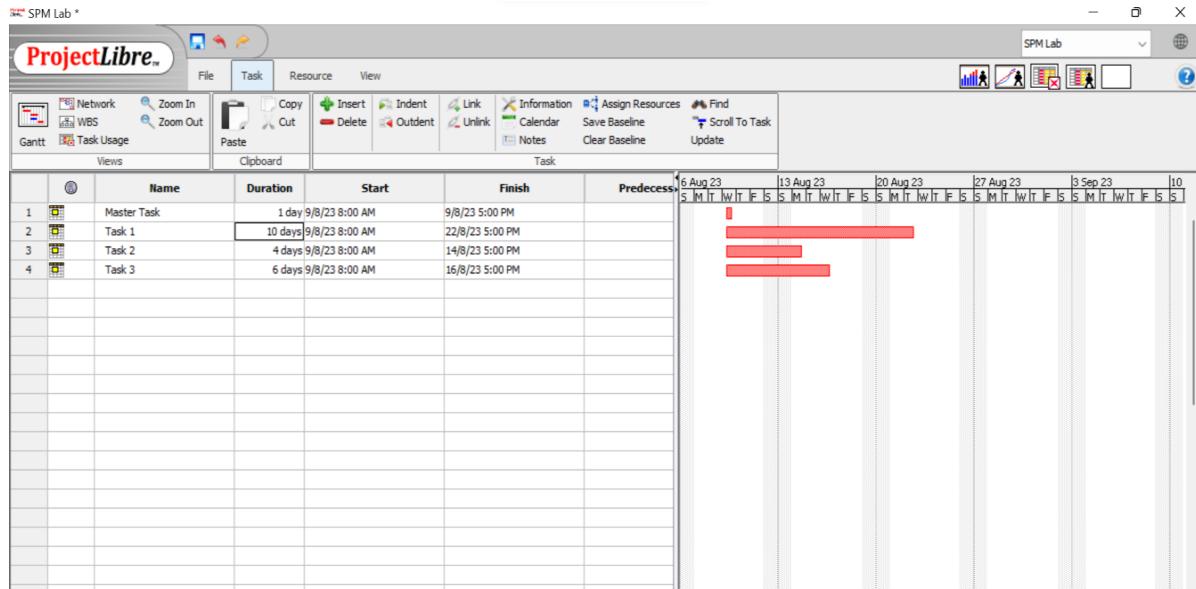


Who Does What

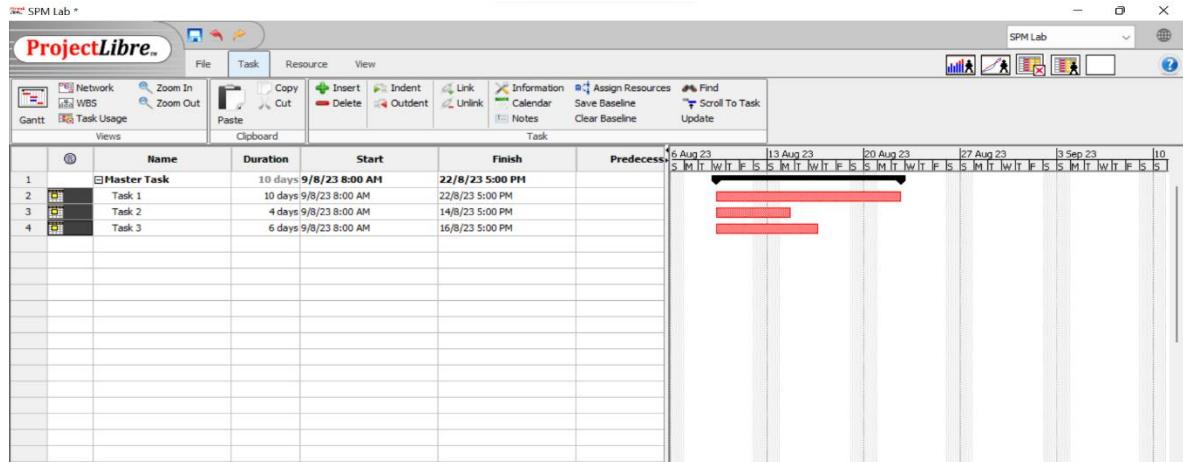
Resource ID		Resource						
1	Resource 1	Task ID	Task	Work	Assignment Units	Assignment	Start	Finish
2	Resource 1	Task 1	Task 1	40 hours	100%	0 days	16/11/21 8:00 AM	22/11/21 5:00 PM
						40 hours		
2	Resource 2	Task ID	Task	Work	Assignment Units	Assignment	Start	Finish
3	Resource 2	Task 2	Task 2	32 hours	100%	0 days	23/11/21 8:00 AM	26/11/21 5:00 PM
2	Resource 2	Task 1	Task 1	40 hours	100%	0 days	16/11/21 8:00 AM	22/11/21 5:00 PM
4	Resource 2	Task 3	Task 3	48 hours	100%	0 days	29/11/21 8:00 AM	6/12/21 5:00 PM
				120 hours				
3	Resource 3	Task ID	Task	Work	Assignment Units	Assignment	Start	Finish
4	Resource 3	Task 3	Task 3	48 hours	100%	0 days	29/11/21 8:00 AM	6/12/21 5:00 PM
				48 hours				
4	Resource 4	Task ID	Task	Work	Assignment Units	Assignment	Start	Finish
4	Resource 4	Task 3	Task 3	48 hours	100%	0 days	29/11/21 8:00 AM	6/12/21 5:00 PM
				48 hours				

Experiment 7: Create a software project and move and copy tasks in that project.

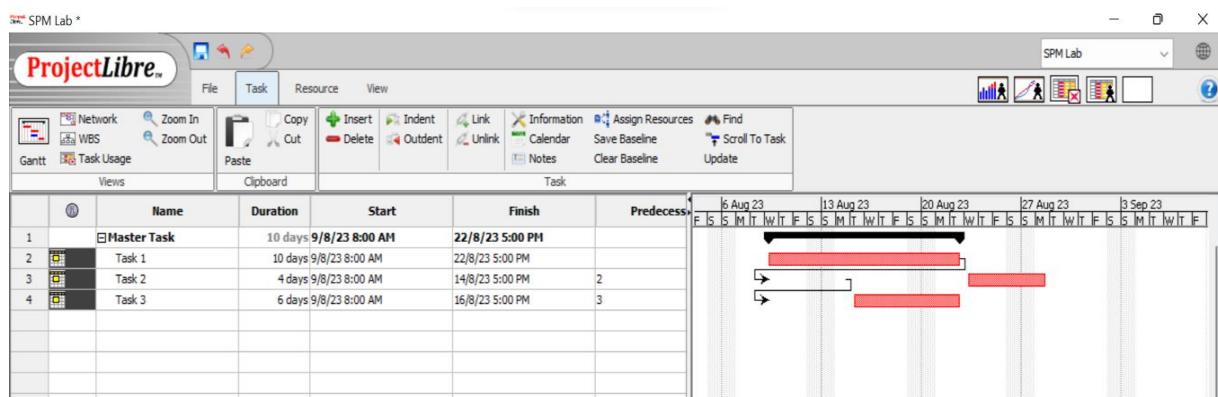
Step 1: Enter task names and durations



Step 2: Identing The task



Step 3: Add the predecessors of the tasks.



Step 4: Add resources

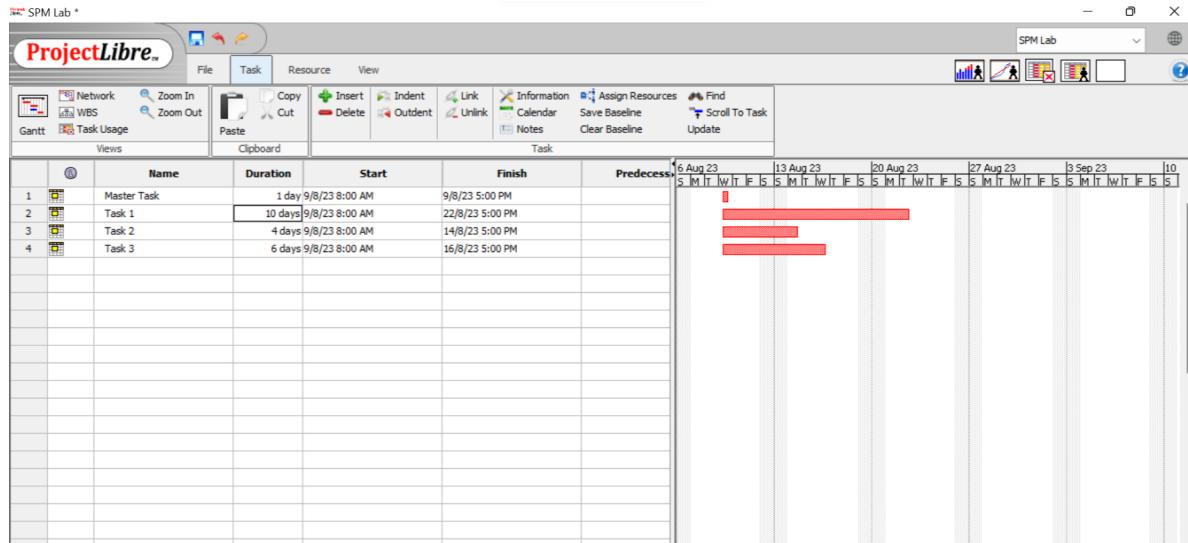
	Name	RBS	Type	E-mail Address	Material Label	Initials	Group	Max. Units
1	R1		Work			R		100%
2	R2		Work			R		50%
3	R3		Material			R		
4	R4		Work			R		50%

Step 5: Copying the task (copies the task with the resource config)

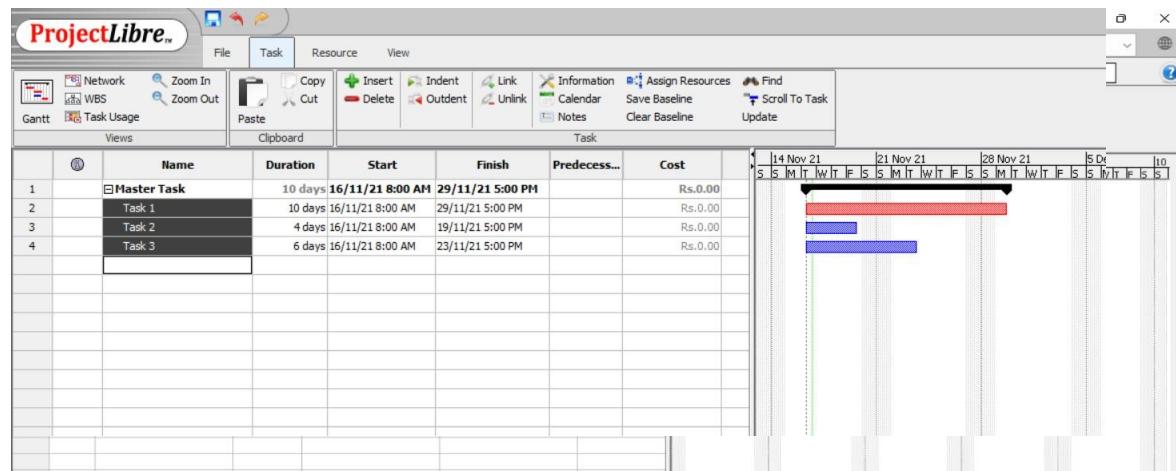
	Name	Duration	Start	Finish	Predecessors	Resource Name
1	Master Task	10 days	9/8/23 8:00 AM	22/8/23 5:00 PM		R1
2	Task 1	10 days	9/8/23 8:00 AM	22/8/23 5:00 PM		R2
3	Task 2	4 days	9/8/23 8:00 AM	14/8/23 5:00 PM	2	R3
4	Task 3	6 days	9/8/23 8:00 AM	16/8/23 5:00 PM	3	R4

Experiment 8: Create a project and save the baseline of the project, review the critical path and draw the checkpoints and milestones of the project.

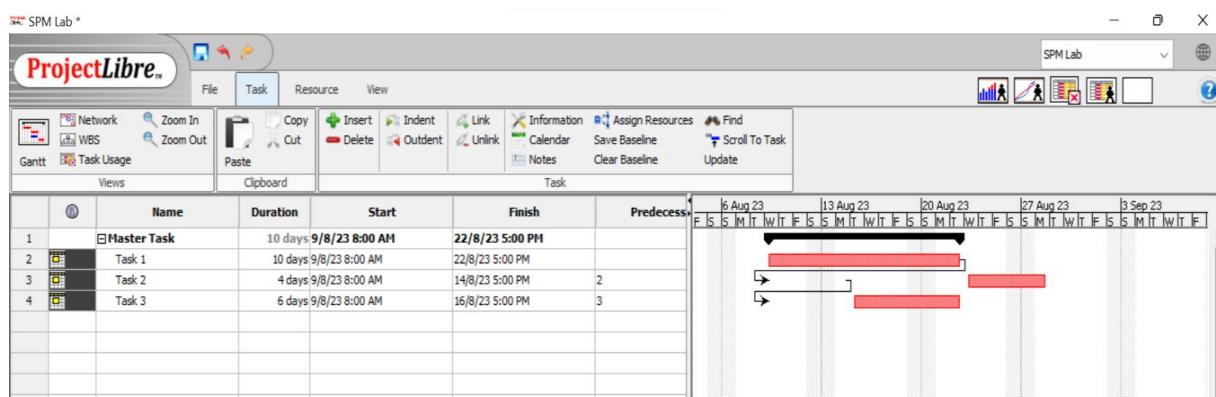
Step 1: Enter task names and durations



Step 2: Indenting The task



Step 3: Add the predecessors of the tasks.

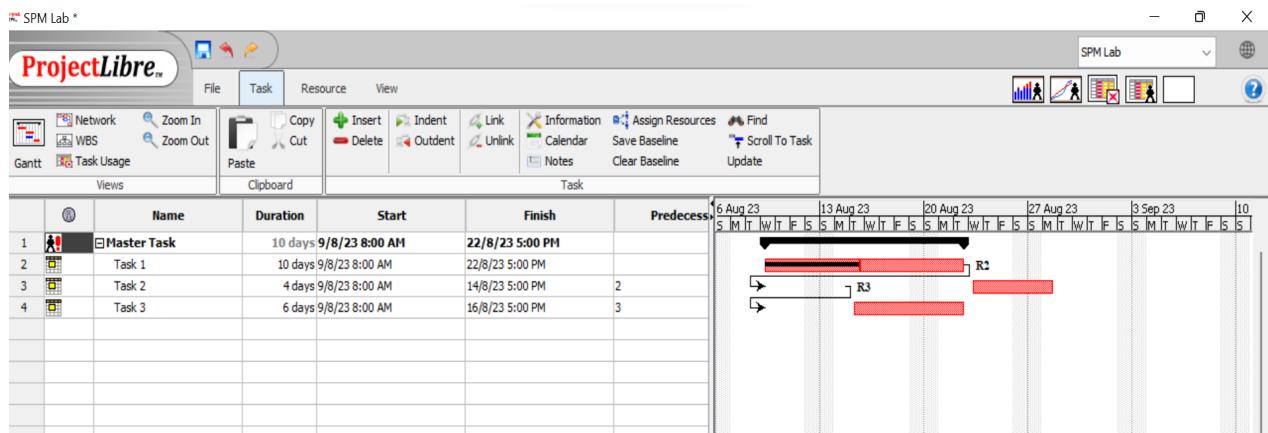


Step 4: Add resources

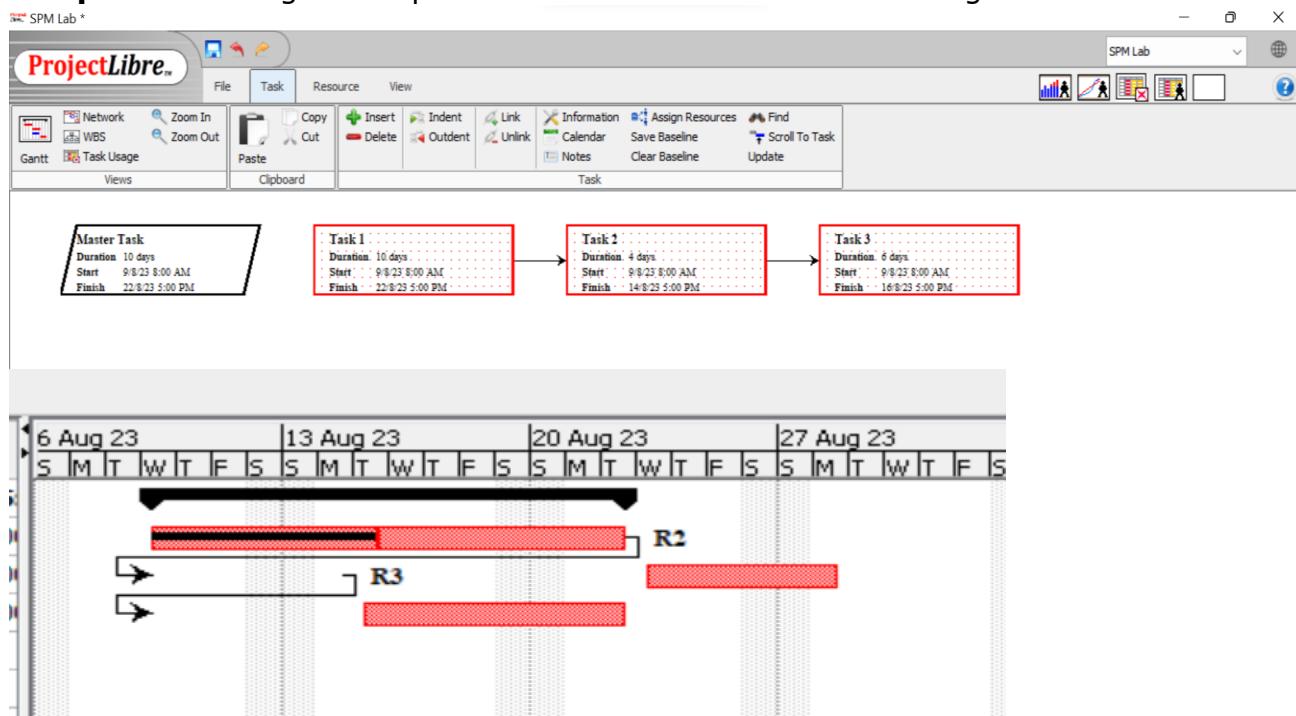
SPM Lab *

	Name	RBS	Type	E-mail Address	Material Label	Initials	Group	Max. Units
1	R1		Work		R			100%
2	R2		Work		R			50%
3	R3		Material		R			
4	R4		Work		R			50%

Step 5: Add baseline

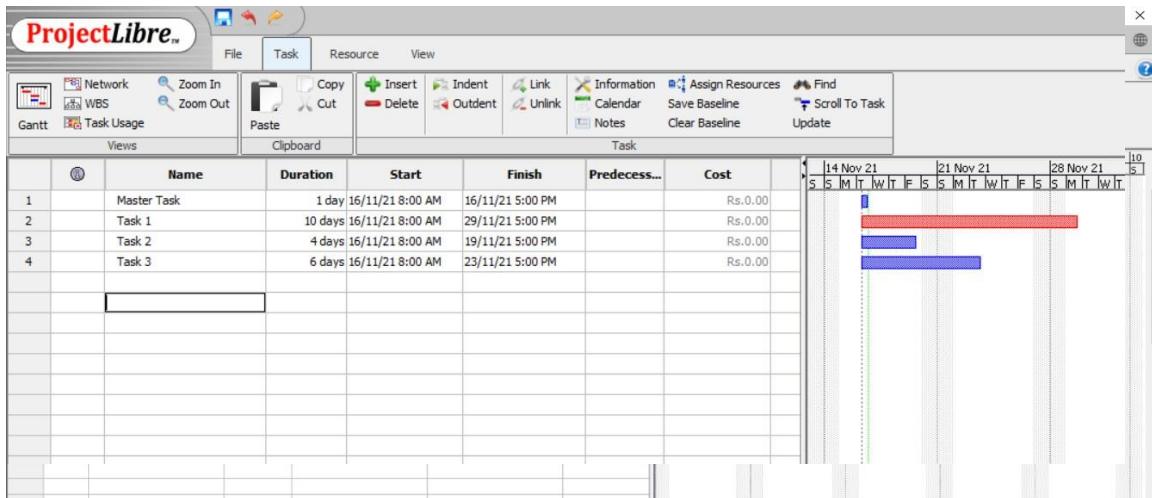


Step 6: Reviewing critical path-milestones from the network diagram-Gantt chart

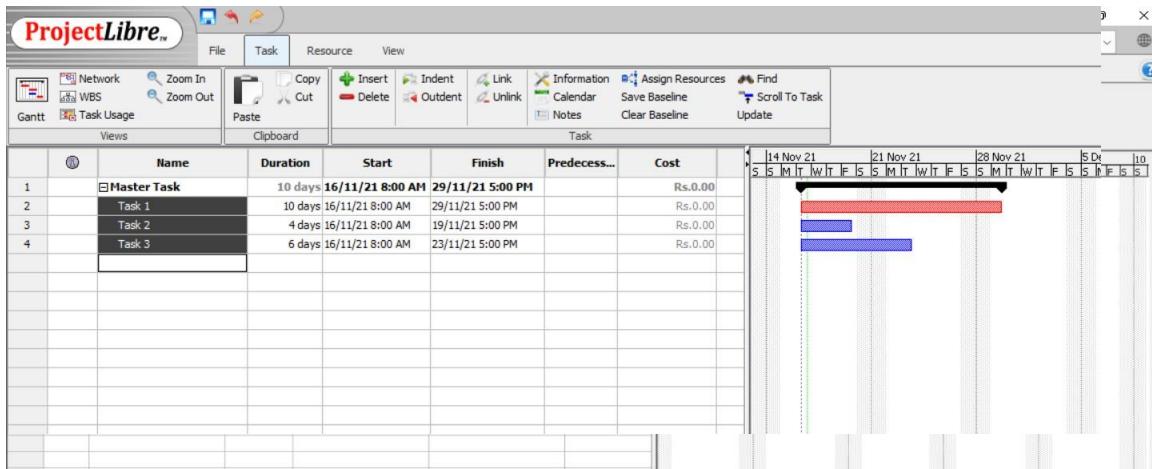


Experiment 9: Create a project and perform time estimation of tasks, set task dependencies & constraints.

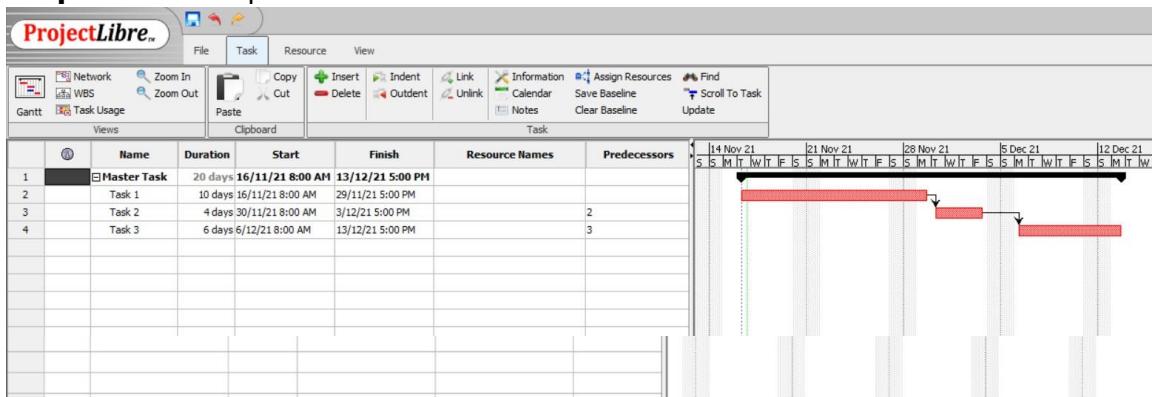
Step 1: Enter task names and durations



Step 2: Identing The task



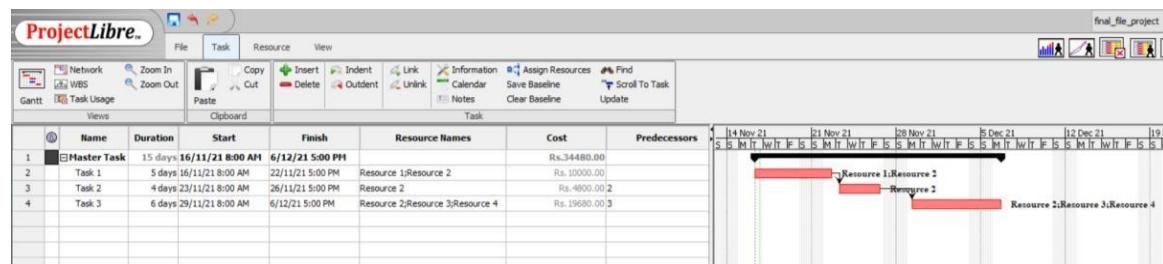
Step 3: Add the predecessors of the tasks.



Step 4: Add resources

	Name	RBS	Type	E-mail Address	Material Label	Initials	Group	Max. Units
1	R1		Work			R		100%
2	R2		Work			R		50%
3	R3		Material			R		
4	R4		Work			R		50%

Step 5: Add costs of resources

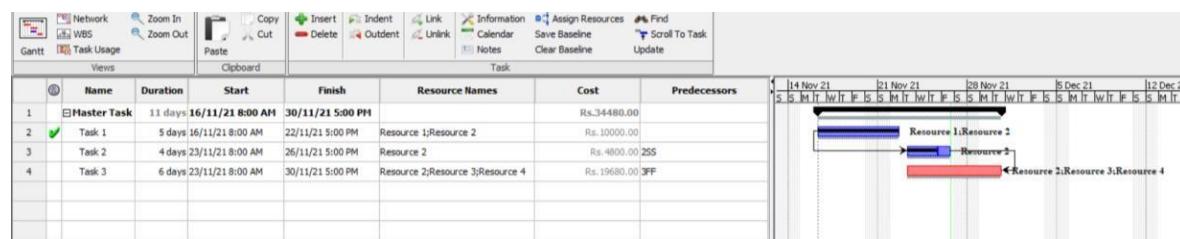


Step 6: Set dependencies and constraints

The screenshot shows the 'Task' view in ProjectLibre. A task named 'Master Task' is selected. A context menu is open, and a constraint dialog is displayed. The dialog shows the following settings:

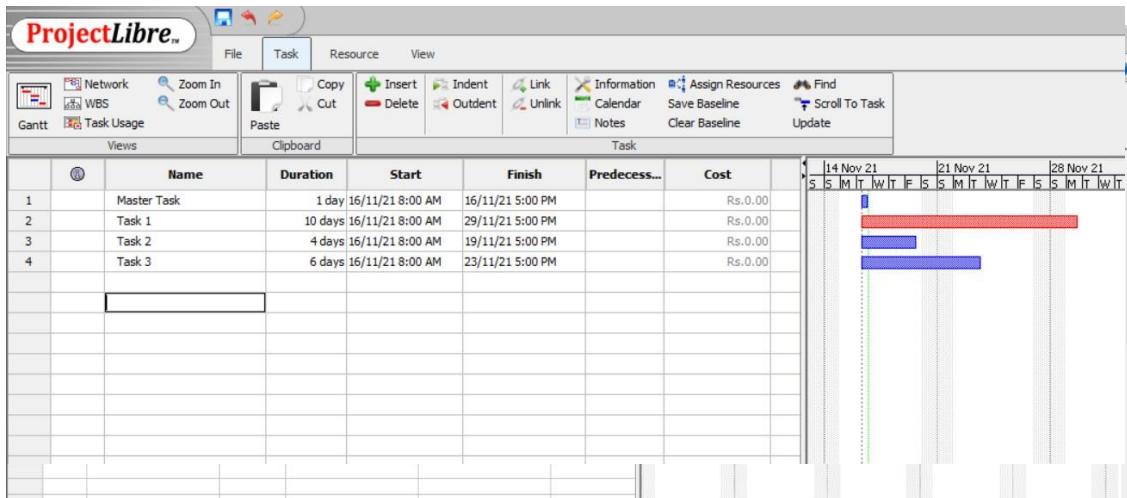
- Constraint Type:** Start No Later Than
- Deadline:** As Soon As Possible
- Constraint Date:** 9/8/23 8:00 AM
- Type:** Effort Driven
- Task Calendar:** Start No Later Than
- Earned Value Method:** Finish No Earlier Than

Step 7: check the time estimation through Gantt chart

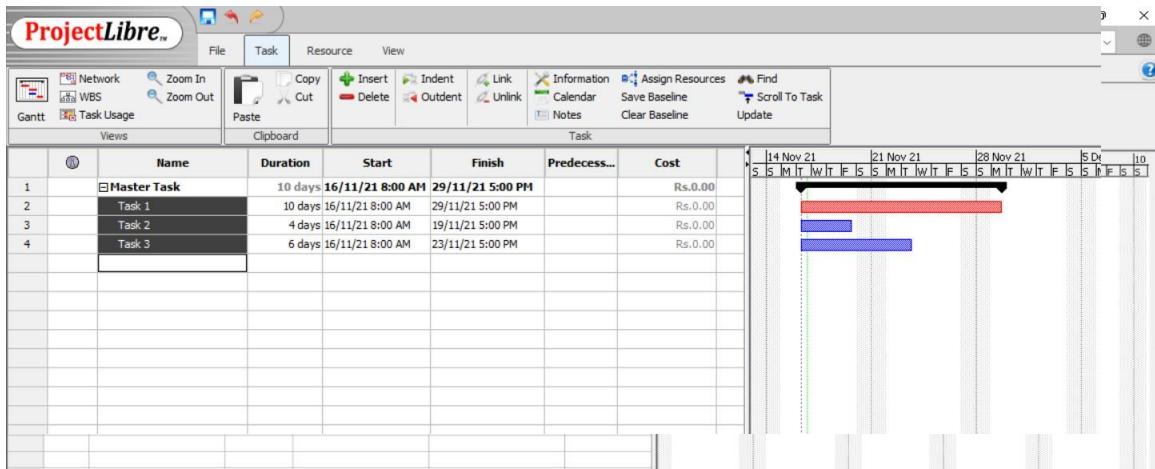


Experiment 10: Create a project and input and select various resources. Also set the notes for resources.

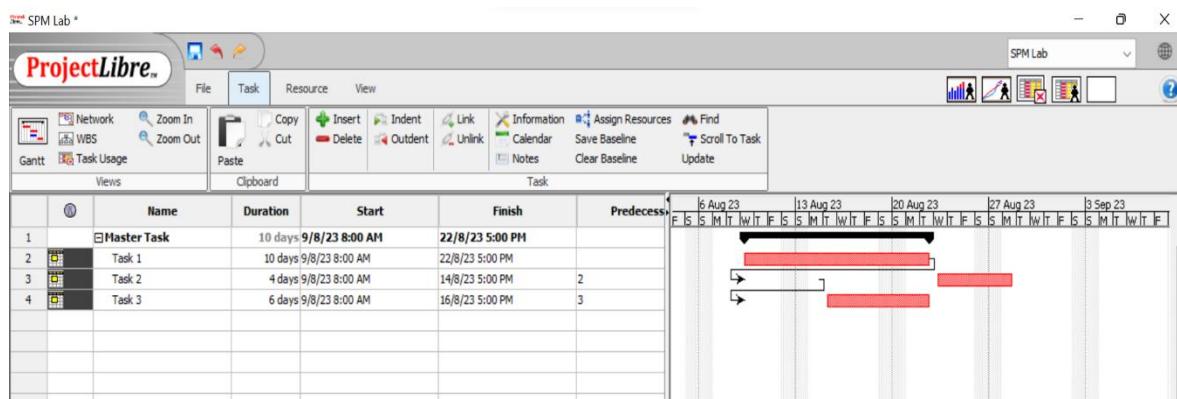
Step 1: Enter task names and durations



Step 2: Identing The task



Step 3: Add the predecessors of the tasks.



Step 4: Add resources (multiple resources to needed task)

The screenshot shows two windows of the ProjectLibre application. The top window is the 'Resource' view, displaying a table of resources with columns for Name, Type, E-mail Address, Material Label, Initials, Group, and Max. Units. The bottom window is the 'Task' view, showing a Gantt chart with tasks Master Task, Task 1, Task 2, and Task 3. A 'Task Information - 3' dialog is open over Task 2, specifically the 'Assign Resources' tab. This dialog lists resources R1, R2, R3, and R4, each assigned 100% units. The Gantt chart shows Task 2 starting on 9/8/23 at 8:00 AM and ending on 9/8/23 at 8:00 PM.

ID	Name	RBS	Type	E-mail Address	Material Label	Initials	Group	Max. Units
1	R1		Work			R		100%
2	R2		Work			R		50%
3	R3		Material			R		
4	R4		Work			R		50%

Step 5: Add notes to resources

The screenshot shows the 'Task' view with the Gantt chart. Task 1 is selected, showing its start date as 9/8/23 8:00 AM and end date as 9/8/23 8:00 PM. A 'Task Information - 2' dialog is open over Task 1, specifically the 'Notes' tab. The notes field contains the text: 'This task is performing the work xyz in the given period of time'.

ID	Name	Duration	Start	End
1	Master Task	10 days	9/8/23 8:00 AM	22/8/23 5:00 PM
2	Task 1	10 days	9/8/23 8:00 AM	22/8/23 5:00 PM
3	Task 2	14 days	9/8/23 8:00 AM	14/8/23 5:00 PM
4	Task 3	6 days	9/8/23 8:00 AM	16/8/23 5:00 PM

OPEN ENDED 1: Consider the given case study and perform the following tasks:

1. Make a suitable project calendar for the same and declare essential holidays.
2. Prepare a Gantt Chart and establish relationships for the activities.
3. Analyze the resources utilization total cost for setting up this new business.
4. Analyze the actual start for each activity and create a baseline for the project.
5. Generate essential reports, which includes resource utilization, project progress, and cost, incurred to each phase.

Step 1: Enter task names and durations

		Name	Duration	Start	Finish	Actual Cost	Cost	Perce...	Predecess...	Resource Names
1		Insurance Claim Proses	0.5 days	15/9/21 8:00 AM	15/9/21 1:00 PM	Rs.55.00	Rs.100.00	55%		
2	✓	Read the note for an e	0 days	15/9/21 8:00 AM	15/9/21 8:00 AM	Rs.0.00	Rs.0.00	100%		
3		Claim is registered or	0.5 days	15/9/21 8:00 AM	15/9/21 1:00 PM	Rs.55.00	Rs.100.00	55%	2	Agent;Customer
4		Enter Originating Cust	3.656 days	15/9/21 12:00 ...	21/9/21 9:15 AM	Rs.152.50	Rs.211.25	79%		
5	✓	Case identifier assigne	0 days	15/9/21 12:00 ...	15/9/21 1:00 PM	Rs.0.00	Rs.0.00	100%	3	
6		Claim information take	0.125 days	15/9/21 12:00 ...	15/9/21 2:00 PM	Rs.8.75	Rs.25.00	35%	5	Agent;Customer
7	✓	Claimant is directed tc	0.031 days	15/9/21 2:00 PM	15/9/21 2:15 PM	Rs.6.25	Rs.6.25	100%	6	Agent;Customer
8		Adjuster is assigned	1 day	15/9/21 2:15 PM	16/9/21 2:15 PM	Rs.48.00	Rs.80.00	60%	7	Adjuster
9		Adjuster checkd "unpa	0.125 days	16/9/21 2:15 PM	16/9/21 3:15 PM	Rs.4.00	Rs.10.00	40%	8	Adjuster
10	✓	Customer delivers aut	2 days	16/9/21 3:15 PM	20/9/21 3:15 PM	Rs.80.00	Rs.80.00	100%	9	Customer
11		Estimator reviews dan	0.25 days	20/9/21 3:15 PM	21/9/21 8:15 AM	Rs.5.50	Rs.10.00	55%	10	Estimator
12		Estimator reviewed ap	0.125 days	21/9/21 8:15 AM	21/9/21 9:15 AM	Rs.0.00	Rs.0.00	55%	11	
13		■ If Estimate Does not	0.188 days	21/9/21 9:15 AM	21/9/21 10:45 ...	Rs.12.50	Rs.15.00	83%		
14		Adjuster suggests pos	0.062 days	21/9/21 9:15 AM	21/9/21 9:45 AM	Rs.4.00	Rs.5.00	80%	12	Adjuster
15		Claim information and	0.125 days	21/9/21 9:45 AM	21/9/21 10:45 ...	Rs.8.50	Rs.10.00	85%	14	Adjuster
16		■ If "Hidden Damage" is	10.548 da...	15/9/21 8:00 AM	29/9/21 1:23 PM	Rs.668.38	Rs.1163.06	50%		
17		Repairer notifies adjus	1 day	15/9/21 8:00 AM	15/9/21 5:00 PM	Rs.60.00	Rs.120.00	50%	15	Repairer
18	✓	Adjuster determines if	0.5 days	15/9/21 8:00 AM	15/9/21 1:00 PM	Rs.40.00	Rs.40.00	100%	17	Adjuster
19		Repair performed	10.5 days	15/9/21 8:00 AM	29/9/21 1:00 PM	Rs.567.00	Rs.1000....	47%	18	Adjuster;Repairer
20		Customer notifies us o	10.548 d...	15/9/21 8:00 AM	29/9/21 1:23 PM	Rs.1.38	Rs.3.06	55%	19	Customer;Adjuster
21		Customer[repair] comp	0 days	15/9/21 8:00 AM	15/9/21 8:00 AM	Rs.0.00	Rs.0.00	30%	20	
22		■ If Estimate Exceeds De	1 day?	15/9/21 8:00 AM	15/9/21 5:00 PM	Rs.0.00	Rs.0.00	0%		
23		If Auto Is Considered "	1 day?	15/9/21 8:00 AM	15/9/21 5:00 PM	Rs.0.00	Rs.0.00	0%		

Step 2: Identifying The task

Step 3: Add the predecessors of the tasks.

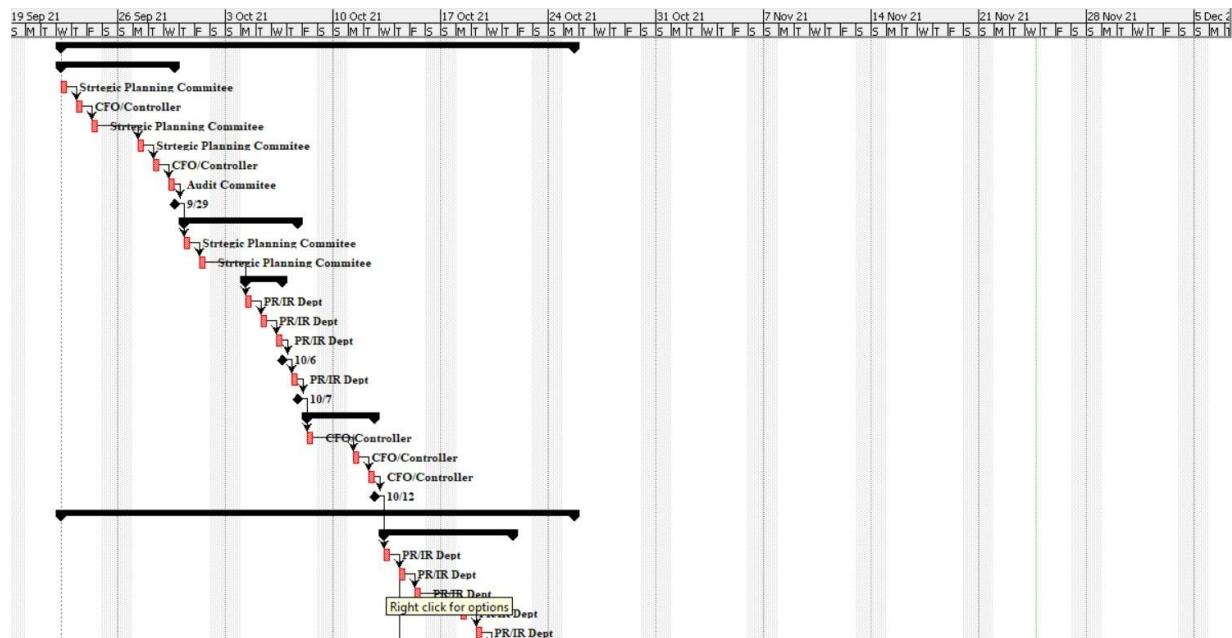
		Name	Duration	Start	Finish	Actual Cost	Cost	Perce...	Predecess...	Resource Names
1		Insurance Claim Proses	0.5 days	15/9/21 8:00 AM	15/9/21 1:00 PM	Rs.55.00	Rs.100.00	55%		
2	grid	Read the note for an e	0 days	15/9/21 8:00 AM	15/9/21 8:00 AM	Rs.0.00	Rs.0.00	100%		
3		Claim is registered or	0.5 days	15/9/21 8:00 AM	15/9/21 1:00 PM	Rs.55.00	Rs.100.00	55%	2	Agent;Customer
4		Enter Originating Cus...	3.656 days	15/9/21 12:00 ...	21/9/21 9:15 AM	Rs.152.50	Rs.211.25	79%		
5	checkmark	Case identifier assigne	0 days	15/9/21 12:00 ...	15/9/21 1:00 PM	Rs.0.00	Rs.0.00	100%	3	
6	grid	Claim information take	0.125 days	15/9/21 12:00 ...	15/9/21 2:00 PM	Rs.8.75	Rs.25.00	35%	5	Agent;Customer
7	checkmark	Claimant is directed to	0.031 days	15/9/21 2:00 PM	15/9/21 2:15 PM	Rs.6.25	Rs.6.25	100%	6	Agent;Customer
8		Adjuster is assigned	1 day	15/9/21 2:15 PM	16/9/21 2:15 PM	Rs.48.00	Rs.80.00	60%	7	Adjuster
9	grid	Adjuster checkd "unpa	0.125 days	16/9/21 2:15 PM	16/9/21 3:15 PM	Rs.4.00	Rs.10.00	40%	8	Adjuster
10	checkmark	Customer delivers auto	2 days	16/9/21 3:15 PM	20/9/21 3:15 PM	Rs.80.00	Rs.80.00	100%	9	Customer
11		Estimator reviews dam	0.25 days	20/9/21 3:15 PM	21/9/21 8:15 AM	Rs.5.50	Rs.10.00	55%	10	Estimator
12		Estimator reviewed ap	0.125 days	21/9/21 8:15 AM	21/9/21 9:15 AM	Rs.0.00	Rs.0.00	55%	11	
13		□ If Estimate Does not	0.188 days	21/9/21 9:15 AM ...	21/9/21 10:45 ...	Rs.12.50	Rs.15.00	83%		
14	grid	Adjuster suggests pos...	0.062 days	21/9/21 9:15 AM	21/9/21 9:45 AM	Rs.4.00	Rs.5.00	80%	12	Adjuster
15		Claim information and	0.125 days	21/9/21 9:45 AM	21/9/21 10:45 ...	Rs.8.50	Rs.10.00	85%	14	Adjuster
16		□ If "Hidden Damage" is	10.548 days	15/9/21 8:00 AM ...	29/9/21 1:23 PM	Rs.668.38	Rs.1163.06	50%		
17	grid	Repairer notifies adjust	1 day	15/9/21 8:00 AM	15/9/21 5:00 PM	Rs.60.00	Rs.120.00	50%	15	Repairer
18	checkmark	Adjuster determines if	0.5 days	15/9/21 8:00 AM	15/9/21 1:00 PM	Rs.40.00	Rs.40.00	100%	17	Adjuster
19		Repair performed	10.5 days	15/9/21 8:00 AM	29/9/21 1:00 PM	Rs.567.00	Rs.1000....	47%	18	Adjuster;Repairer
20	grid	Customer notifies us o	0.1548 days	15/9/21 8:00 AM	29/9/21 1:23 PM	Rs.1.38	Rs.3.06	55%	19	Customer;Adjuster
21		Customer[repair] comi	0 days	15/9/21 8:00 AM	15/9/21 8:00 AM	Rs.0.00	Rs.0.00	30%	20	
22		□ If Estimate Exceeds D	1 day?	15/9/21 8:00 AM ...	15/9/21 5:00 PM	Rs.0.00	Rs.0.00	0%		
23		If Auto Is Considered "	1 day?	15/9/21 8:00 AM	15/9/21 5:00 PM	Rs.0.00	Rs.0.00	0%		

Step 4: Add resources (multiple resources to needed task)

	@	Name	RBS	Type	E-mail Address	Material Label	Initials	Group	Max. Units	Standard Rate
1	person	Agent		Work		A			100%	\$20.00/hour
2	person	Customer		Work		C			100%	\$5.00/hour
3	person	Adjuster		Work		A			100%	\$10.00/hour
4	person	Estimator		Work		E			100%	\$5.00/hour
5	person	Repairer		Work		R			100%	\$15.00/hour

Step 5: Add notes to resources

GANTT CHART:



OPEN ENDED 2: Consider the given case study and perform the following tasks:

1. Make a suitable project calendar for the same and declare essential holidays.
2. Prepare a Gantt Chart and establish relationships for the activities.
3. Analyze the resources utilization total cost for setting up this new business.
4. Analyze the actual start for each activity and create a baseline for the project.
5. Generate essential reports, which includes resource utilization, project progress, and cost, incurred to each phase.

Step 1: Enter task names and durations

	Name	Duration	Start	Finish
1	Evaluating Offshoring strategy for HR functions	96 days?	9/8/21 8:0...	1/19/22 5:00 ...
2	Analyze current HR functions and identify Offsho	7 days?	9/8/21 8:0...	9/16/21 5:00 ...
3	Identify all HR functions within company	1 day?	9/8/21 8:00 AM	9/8/21 5:00 PM
4	Describe Management and employee access to HR fu	1 day?	9/9/21 8:00 AM	9/9/21 5:00 PM
5	Perform COst/Benefit/Problem analysis of intenally mar	1 day?	9/10/21 8:00...	9/10/21 5:00 PM
6	Preliminary identification of HR functions for Offshoring	1 day?	9/13/21 8:00...	9/13/21 5:00 PM
7	Review summary	1 day?	9/14/21 8:00...	9/14/21 5:00 PM
8	Identify HR functions for Offshoring comparison	1 day?	9/15/21 8:00...	9/15/21 5:00 PM
9	Analyze Current HR funnctions and evaluate Offshorin	1 day?	9/16/21 8:00...	9/16/21 5:00 PM

Step 2: Identing The task

Step 3: Add the predecessors of the tasks.

	Name	Duration	Start	Finish	Predec...	Resource Names
1	Evaluating Offshoring strategy for HR functions	96 days?	9/8/21 8:0...	1/19/22 5:00 ...		
2	Analyze current HR functions and identify Offsho	7 days?	9/8/21 8:0...	9/16/21 5:00 ...		
3	Identify all HR functions within company	1 day?	9/8/21 8:00 AM	9/8/21 5:00 PM		Human Resources
4	Describe Management and employee access to HR fu	1 day?	9/9/21 8:00 AM	9/9/21 5:00 PM	3	Human Resources;Finanace;Legal
5	Perform COst/Benefit/Problem analysis of intenally mar	1 day?	9/10/21 8:00...	9/10/21 5:00 PM	4	Human Resources;Finanace;Legal
6	Preliminary identification of HR functions for Offshoring	1 day?	9/13/21 8:00...	9/13/21 5:00 PM	5	Human Resources
7	Review summary	1 day?	9/14/21 8:00...	9/14/21 5:00 PM	6	HR Director;Executive Team
8	Identify HR functions for Offshoring comparison	1 day?	9/15/21 8:00...	9/15/21 5:00 PM	7	HR Director;Executive Team
9	Analyze Current HR funnctions and evaluate Offshorin	1 day?	9/16/21 8:00...	9/16/21 5:00 PM	8	
10	Preliminary research Offshoring/Comparison	5 days?	9/17/21 8:...	9/23/21 5:00 ...		
11	Research Offshoring HR function companies	1 day?	9/17/21 8:00...	9/17/21 5:00 PM	9	
12	Perform COst/Benefit/Problem analysis of Offshoring s	1 day?	9/20/21 8:00...	9/20/21 5:00 PM	11	

Step 4: Add resources (multiple resources to needed task)

	Name	RBS	Type	E-mail Address	Material Label	Initials	Group	Max. Units	Standard Rate
1	Human Resources		Work		H			100%	\$200.00/hour
2	Finance		Work		F			100%	\$250.00/hour
3	Legal		Work		L			100%	\$250.00/hour
4	HR Director		Work		H			100%	\$300.00/hour
5	Executive Team		Work		E			100%	\$200.00/hour
6	Information systems		Work		I			100%	\$250.00/hour
7	Procurement		Work		P			100%	\$200.00/hour
8	Pilot Vendor		Work		P			100%	\$200.00/hour
9	Employees		Work		E			100%	\$200.00/hour

Step 5: Add notes to resources

GANTT CHART:

