Test Name	Test Goal	Expected Outcome
PlannerLevel1Test. testAddTopic()	Verify that add topic	if the topic is new it
	to the topics list is	added to the list and if it
	work correctly.	exist before throw an
		Exception.
PlannerLevel1Test. testDeleteTopic()	Verify that delete	If the topic is found it
	topic from the topics	deleted if not no topic is
	list is work correctly.	deleted.
PlannerLevel1Test. testGenerateStudyPlan()	Verify that Generate	If there is no topics in the
	Study Plan is	topics list the method
	Generate the correct	should throw an
	study plan.	Exception else it should
		generates a list as in the
		order the topics inserted
		for each topic study one
		block of it and repeat
		until finish.
PlannerLevel2Test. testAddCalendarEvent()	Verify that add event	If the event is overlap
	to the events list is	with another event the
	work correctly.	method should throw an
		exception if not the event
		should add to the list.
PlannerLevel2Test. testSaveData()	Verify that saving the	When the method is
	Planner data is work	called with OutputStream
	correctly.	object of a file the
		method should save the
		planner data to that file in
		specific format.
PlannerLevel2Test. testLoadData()	Verify that loading	When the method is
	the Planner data	called with InputStream
	from a given	object of a file the
	InputStream is work	method should load the
	correctly.	planner data from that
	N '5 11 1 0 1	file in specific format.
PlannerLevel3Test. testGenerateStudyPlanWithBreaks()	Verify that Generate	The planner should
	Study Plan is	generate study plan with
	Generate the correct	a break between each
	study plan with	study block if it not
	breaks.	overlaping with the end
PlannerLevel3Test. testGenerateStudyPlanWithEvents()	Varify that Congrets	of the day or any event. The planner should
Planner Levels rest. testGeneratestudyPlanWithEvents()	Verify that Generate Study Plan is	•
	Generate the correct	generate study plan that for each block of study
	study plan when	not overlaping with any
	there is one event or	event.
	more.	event.
PlannerLevel3Test. testSetTargetEventForTopic()	Verify that set target	if the event is of Exam or
Planner Levels Test. testSetTargetEventForTopic()	event for the topics is	Essay Type it should be
	work correctly.	set as a target if not the
	work correctly.	method should throw an
		Exception.
	1	LACEPTION.

The File Format Used For Saving The Planner Data Is As The Following:-

```
    Block Of Study Length (Integer)

Break Length (Integer)
Start Day Time (Long)
4. End Day Time (Long)
5. Topics List Size (Integer)
6. For Each Topic :
   1- Subject (String)2- Duration (Integer)
   3- Boolean Telling that is there is a target event or not (Boolean)
   4- If true save the event as the same way the events is saving "As Below"
Calendar Events List Size (Integer)
8. For Each Event :
   1- Name (String)
   2- Time (Long)
   3- Duration (Integer)
   4- Type (String)
9. Plan List Size (Integer)
10. For Each Block Of Study :
   1- Topic Name (String)
```

2- Time (Long)

3- Duration (Integer)

^{*}This Format is easy to write and read the data back to the planner.