IDEA:

The project aims at creating a comprehensive calendar which not only gives the schedule for the day, but also the reminders for assignment deadlines,tests ,any other upcoming events and shows gneral holidays and festivals -all in one go.

The program inserts the daily t**imetable** into **Google calendar** and further checks for any upcoming events **(like assignment submissions and test**) in the **IIITB LMS** website and adds those as well into the calendar. **Reminders** for all upcoming events are added and given daily so that one look in the morning and the entire day can be scheduled.

Importantly Google calendar can be **connected to Alexa** , and hence asking just one question -

"What are my events today?"

in the morning is ennough to get your whole schedue!

Also since the calendar is available at all times on the phone

any new events not mentioned in the lms, can also be added manually thus providing a comprehensive schedule.

Also **notifications** for all events come to the **phone** 10 min before sheduled start time so that no events are forgotten.

TECHNOLOGY USED AND IMPLEMENTATION:

The following have been used:

1.Google Calendar API

2.Selenium for automation

3.BeautifulSoup for webscraping

4.Alexa to read out daily schedule

5.chromedriver

The following libraries have been used:

1.date and datetime

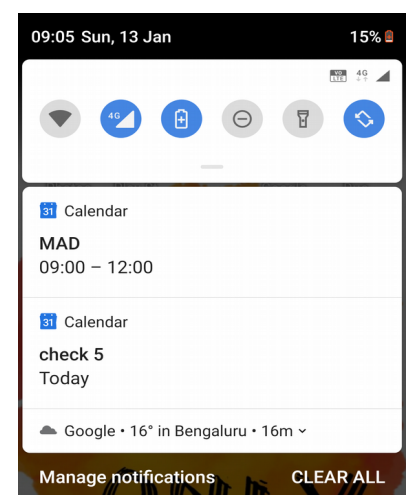2.Calendar

3.client and tools

3.lxml

The implementation:

1. Get the current system date and day add the corresponding timetable using functions and formats in of Google calendar API

2. Open LMS using selenium and perform login poerstion

3. Find all the upcoming events and scrape using "BeautifulSoup"

4. Add the events at correct tie and date into the Google calendar

5. Set reminders for all upcoming events on all days till the submission day

Thus every morning the timetable for the day, the upcoming tests and assignment deadlines are known so that we can plan better.

VIDEOS and SCREENSHOTS:

1. The addtion of all events (timetable and from LMS) to calendar:
    https://www.youtube.com/watch?v=LwMgtdUHbIg
    (With explanation : https://www.youtube.com/watch?v=2GUUnDt3AUA)

2. On the mobile+Alexa reading out schedule:
    https://www.youtube.com/watch?v=EPMJSZJDTZI

3.   Notifications on the phone

FUTURE SCOPE:

Make it an app or a software which nott only adds all the relavant events but also schedule it according to an algorithm based on priority.
Also give it the ability to add events from anywhere(other than LMS), even when said verbally.

OVERALL EXPERIENCE:

The reason I got this idea was , I am forgetful and hence failed to submit my assignments on time on one or two ocassions.Further I procrastinate.

This program tells me every morning of all that I need to do that day and sends reminders and notifications.
Finding a sort of solution to a real life problem like this for the first time, gave me confidence that is possible to start off by creating small practical projects to solve everyday problems.

I learnt a lot from various sources. I also learnt how to find relavant informatoin reqired.

I realised it takes small steps to finish anything and we shouldnt give up.