**API**

1. API application programming interface
2. Uber, Ola, Zomato, shows one map and we know location of delivery person
3. Zomato uses google map system or data base to get location
4. Zomato can not directly use google map data, rather there is a security with api
5. Zomato use google api to get data from google map, if api allowed to take data, it is given back to zomato otherwise one error msg produced
6. If there is internet error, error response will be given by api, response will surely given
7. Api does not tell how it tell what, for example does not give the recipe to make burger but provide final prepared burger, and app or system will work with final product given by api
8. For a new downloaded app in your mobile, login with google, login with facebook as google and facebook already has database entry for user and it permit, access is allowed to new app otherwise not, this allow not to check each and every credential of a new user of app, rather the credential is already verified by google, facebook etc and it can be used by calling api from app to google for facebook
9. This way any app may make misuse of our credential, to avoid this a security feature is added with api key
10. Api key for security reason, security code given to a developer of a system in case developer want to use api of that system
11. Some api does not use any api key, they do not have any security
12. Api key provide benefit of security so that access to data provided with api key only and no direct access to data of the system, also it help for monitoring so that unlimited request can not be send, also some api key are paid api key
13. Use of api, rather than writing everything with scratch, one can make use of api and create new project with already developed functionality
14. For example if you have to get temperature of different location, rather than going and collecting temp from different location, use a api which already provide calculated temperature
15. Rather than writing login from starting, use the api to login with google and facebook
16. Any new project can use existing api and fast progress happen, for example in python everything is api
17. For covid free slot, government has provided data to some api and api gives alert to users

<https://www.youtube.com/watch?v=vP3TRAsjZss>

App development

Web development

**Front end and backend**

Front-end: Structures and Design

Back-end: Functions and Logic

Full-Stack: Both Front-End and Back-End.

<https://www.youtube.com/watch?v=eKqY-oP1d_Y>

**How to start coding**

What to learn?

What languages?

Basics

To build up a project

Data Science python

Software development

Website jango with python

Jango with python

**Learn basics**

Variables

If-else

Loop

Array

Make simple project using above basic concept

Develop website with the help of python

Yoga website

**Why code**

* Interest
* High paying job
* Adapt to market

Motivation gets you started, discipline keeps you going

10thing you should know before you start coding

new things I learnt or brushed up:

1. Logic building and problem-solving are the keys!

2. don't learn multiple technologies at a time. stick to 1 / 2 technologies.

3. don't get nervous/anxious over peer pressure rather build a team of like-minded people with whom you can share your thoughts and grow together.

4. Don't just watch tutorials, put efforts into coding everything on your own.

1. DSA is imp

2. Don't do multiple things at once

3. Find a group which matches your interest

4. There is no best technology, we can learn old languages too

5. Don't just copy and paste code from tutorials , practice yourself

6. Don't rush for certificates

7. Don't quit

8. Don't use multiple websites , platform to learn

9. Create GitHub & LinkedIn account

10. Problem solving mindset