

# # Computational Thinking

⇒ Thinking to solve a problem at hand, knowing how different parts of it can be solved using a computer program.

- ① Not all problems can be solved by a computer.
- ② Generally a problem will contain various subparts and some parts will already be seen by you in part.  
Computational running increases with time.

# # Sorting of Numbers

Reversing

$$x = [50, 29, -5, 3, 70]$$
$$[-5, 3, 29, 50, 70]$$

~~[56, 28, 50, 70]~~

[-3, 28, 50, 70]

$$x = [30, -5, 76, 59]$$

Smallest Number? -5 ✓

How to teach this  
to a computer?

Computer understands programming  
languages. Examples:- Python, C++, C, Java,  
JavaScript etc.

# Show you an example  
of python program. (code)  
to find out smallest  
number

Don't try to understand  
all of it.

# Arranging numbers in Ascending Order.

$x = [\cancel{33}, \cancel{29}, \cancel{41}, \cancel{76}, \cancel{51}]$

$y = (9) 29, 33, 51, 76$

Let's teach computer to  
do so ✓

# Screen

↓ + Something more

Touch Screen

Reuse

# WiFi Tech

↓ + Something more

File Sharing Software, Screen Sharing



Q Ajay Knows Mohan, Mohan knows

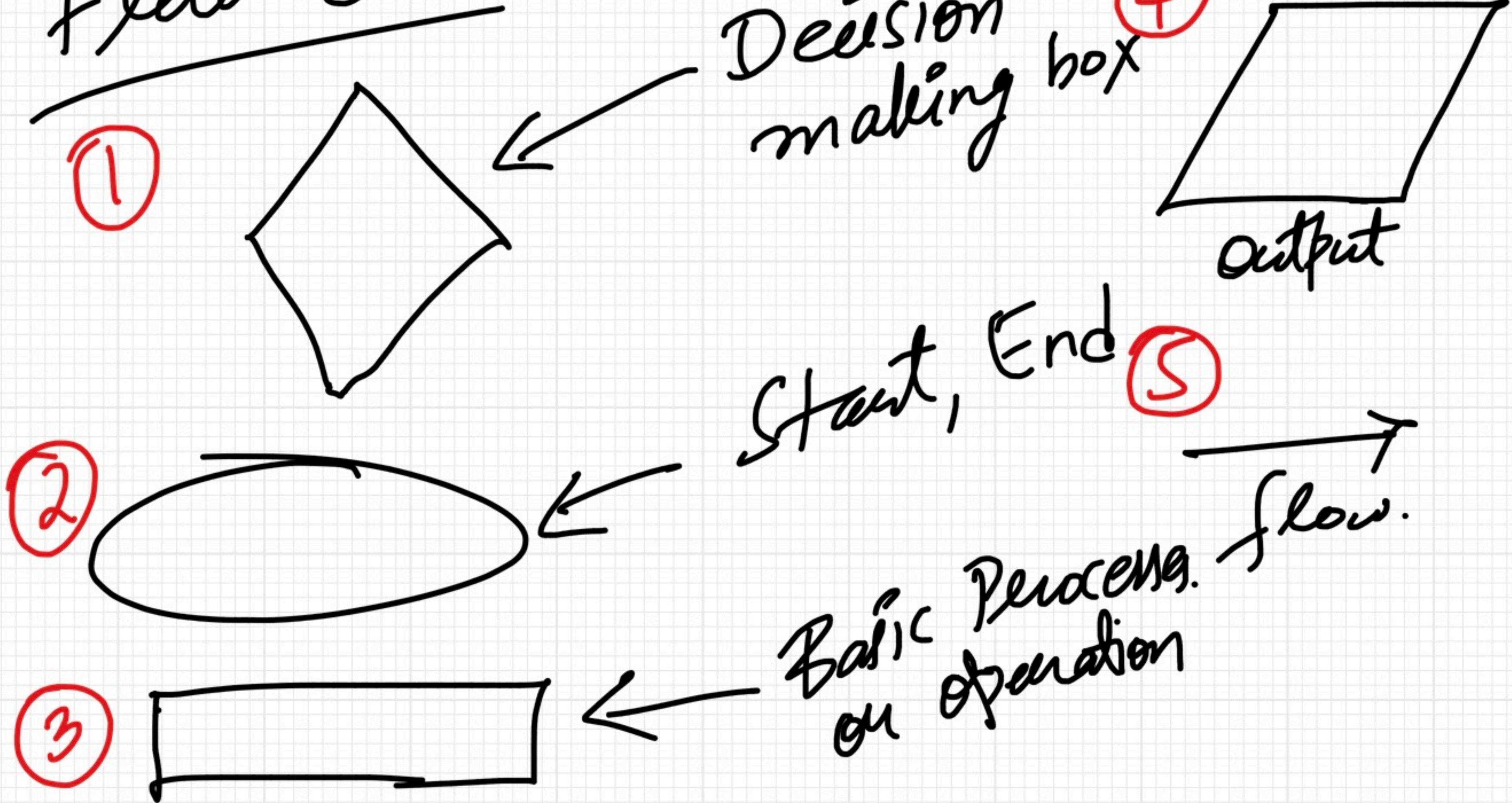
Sunita, Reshma, and Zoya. Reshma  
knows Shaikh Khan.

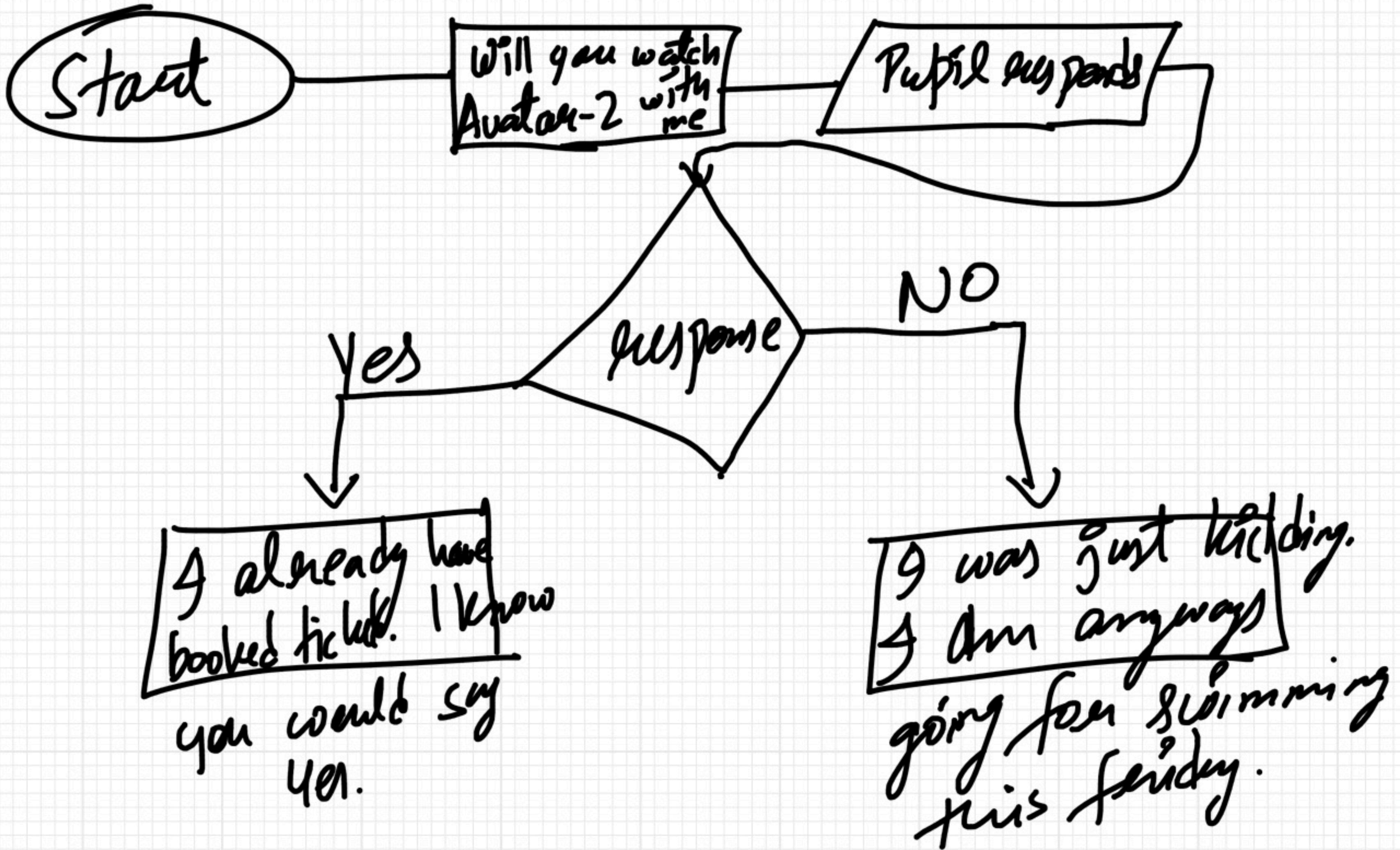
Steps =>

Make you guys understand the last slide  
point of the



# Flow Chart





~~XW~~

Create a flow chart  
for Smallest No algo.  
that we discussed.

II Arranging NO's in Ascendig  
Order.

# Computational thinking

From Wikipedia, the free encyclopedia

Computational thinking (CT) is the mental skill to apply concepts, methods, problem solving techniques, and logic reasoning, derived from computing and computer science, to solve problems in all areas, including our daily lives.<sup>[1]</sup> In education, CT is a set of [problem-solving](#) methods that involve expressing problems and their solutions in ways that a computer could also execute.<sup>[2]</sup> It involves automation of processes, but also using computing to explore, analyze, and understand processes (natural and artificial).<sup>[3][4][5]</sup>



# Modern Problems & Computer Solutions

APPENDIX

- ① Read Various Land Owner papers  
and Store relevant info online

Storing the image

Capturing the image

Parsing | Reading  
that info.

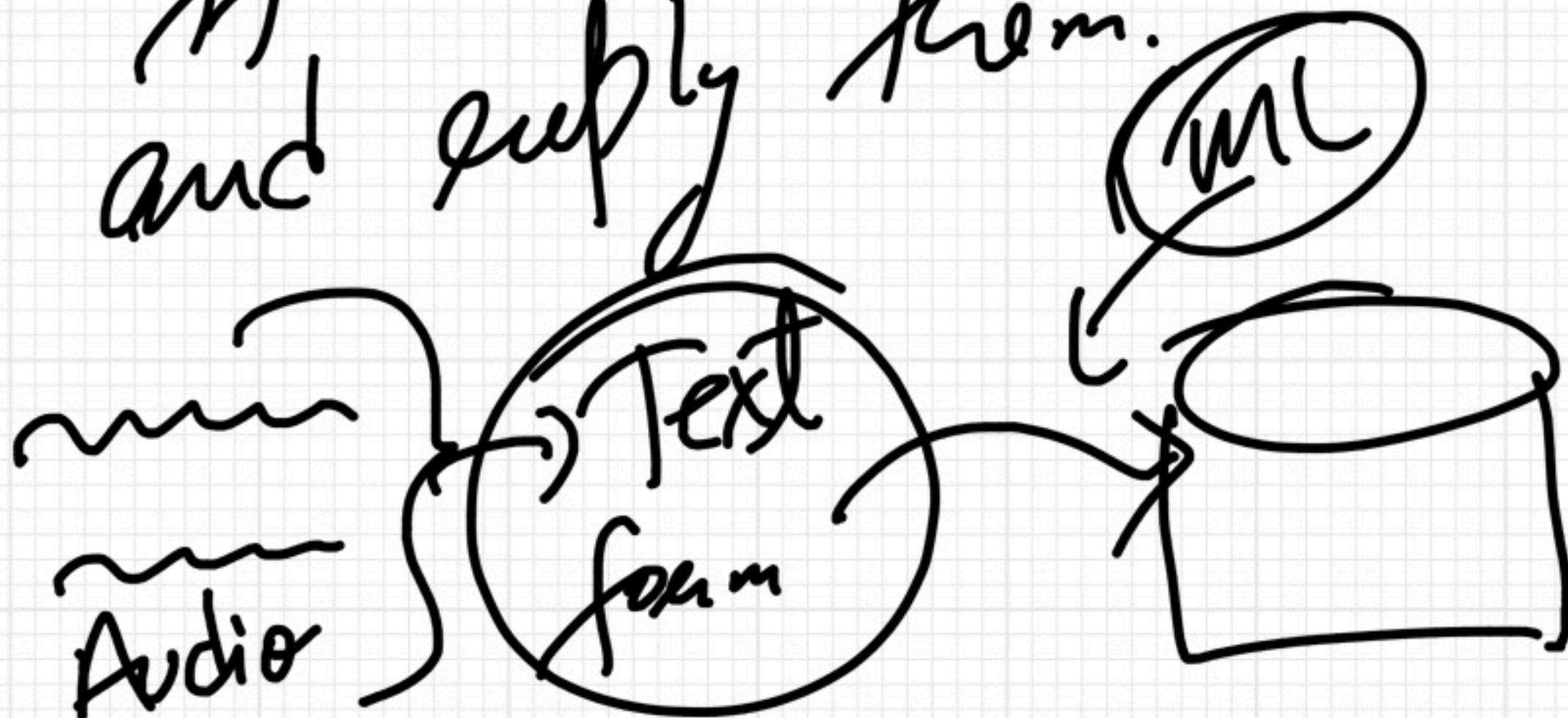
Google sheet

Login | Signup

Natural  
language  
Processing

NLP

② You own a company, whose work involves talking to people speaking diff. languages like French, Spanish, etc and supply them.



# Data Science Subjects

