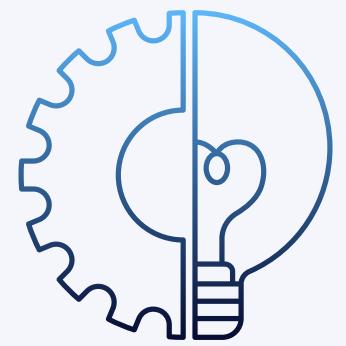
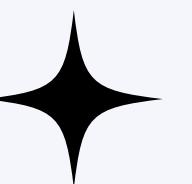


Creative ISE Design

Date: 18.10.2022



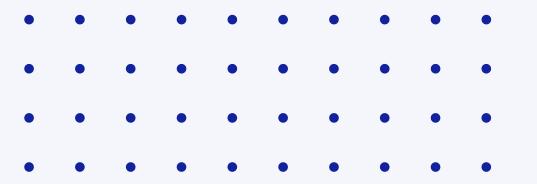
Help for Covid-19 consequences

# AI voice "Di"

by "High Voltage" team

Team members: Adinai(12214747),  
Botagoz(12220266), Diyora(12214731)

prof.: Kakani Vijay/Choi Ji Eun



- **Project Needs: Better Socialisation**
- **Project Goals: Helping students to improve communication**

# List of content

## Presentation

- **Brainstorming**

related to COVID 19

- **Survey results**

English and Korean survey responses

- **Problem Definition**

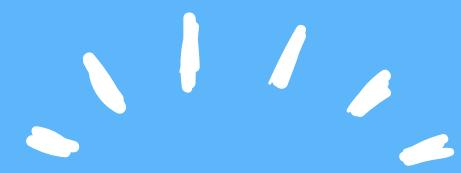
Needs, insights, HMW

- **SCAMPER**

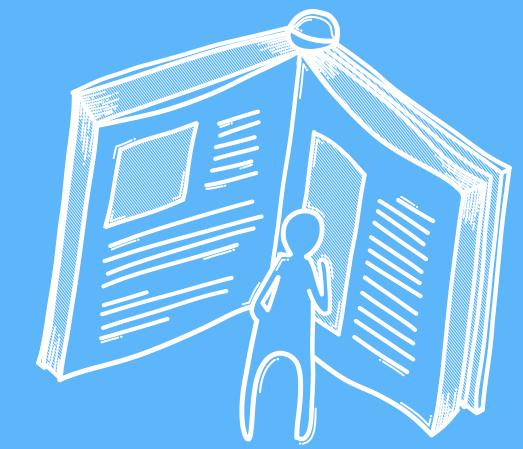
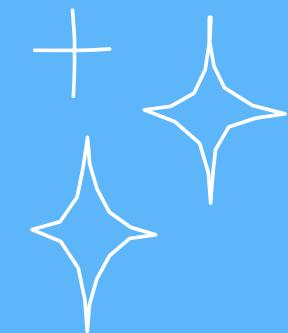
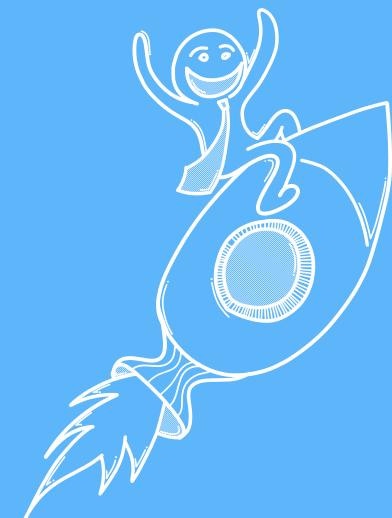
How might we improve communication?  
AI voice "DI"

- **Sensors and actuators**

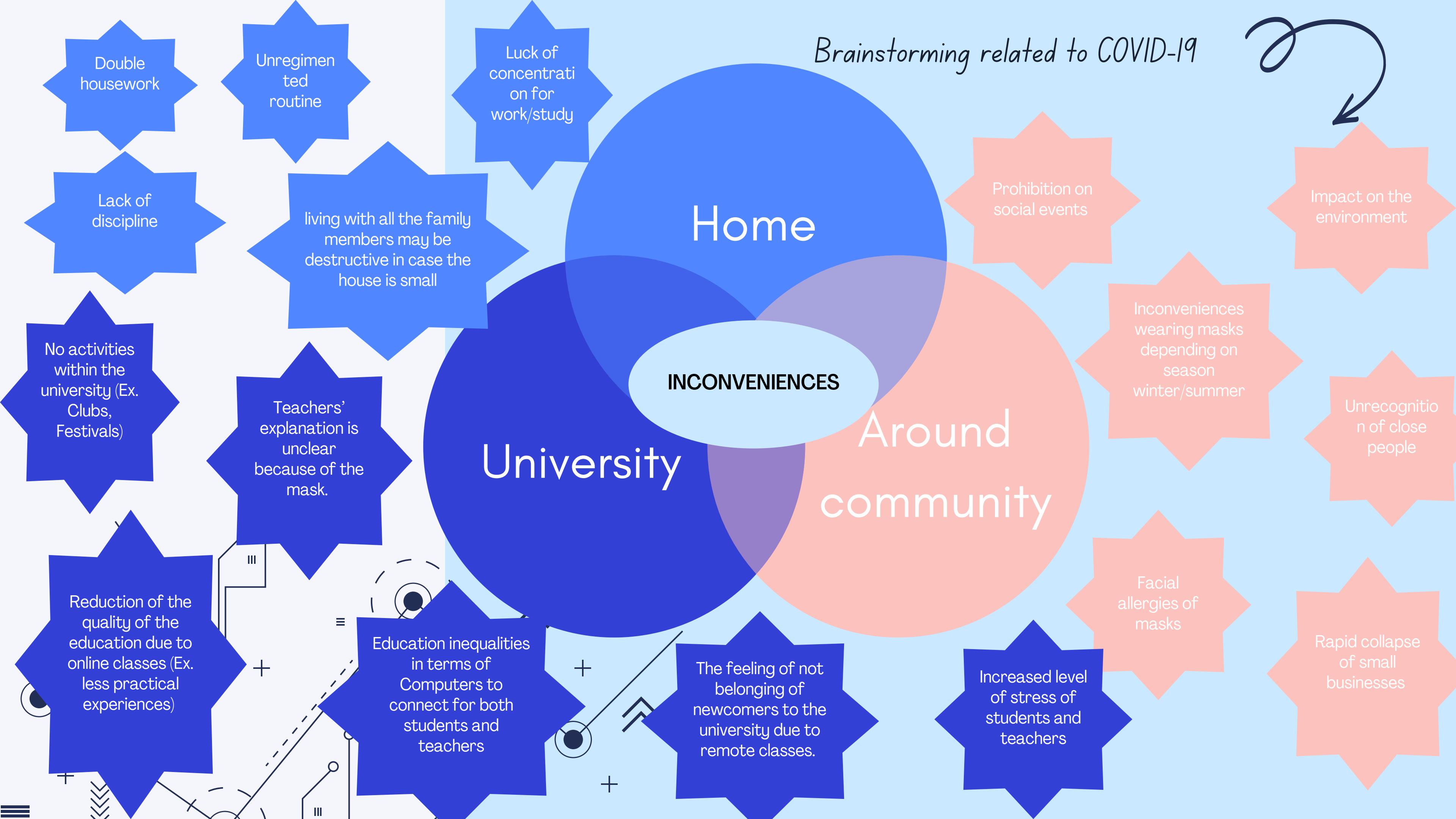
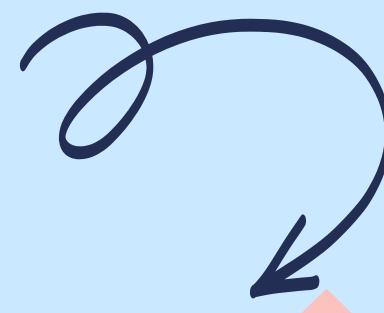
used for AI voice "DI"



# It's brainstorming time!

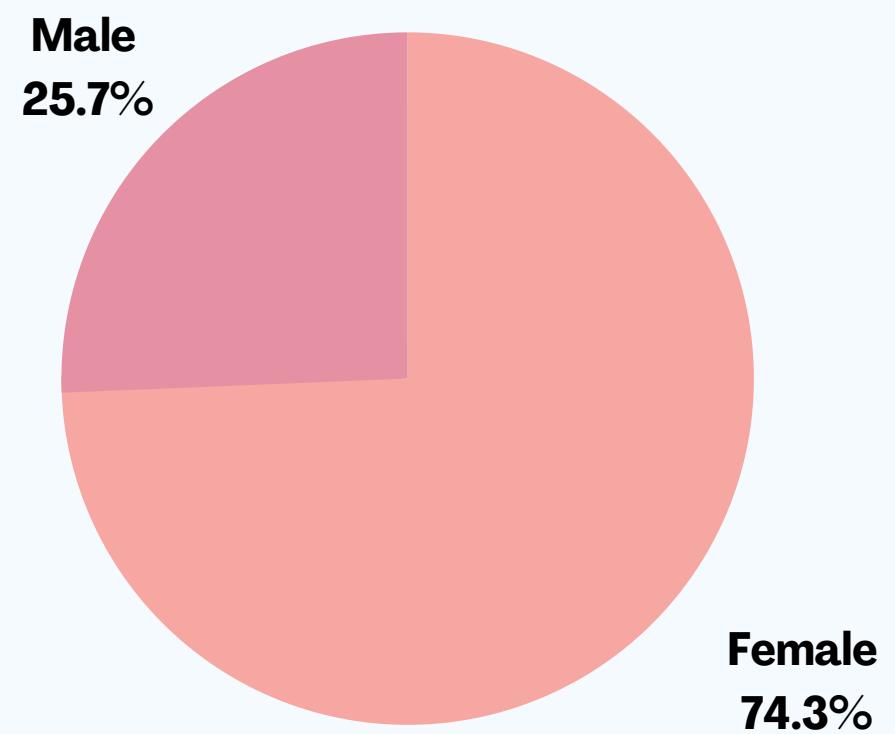


# Brainstorming related to COVID-19

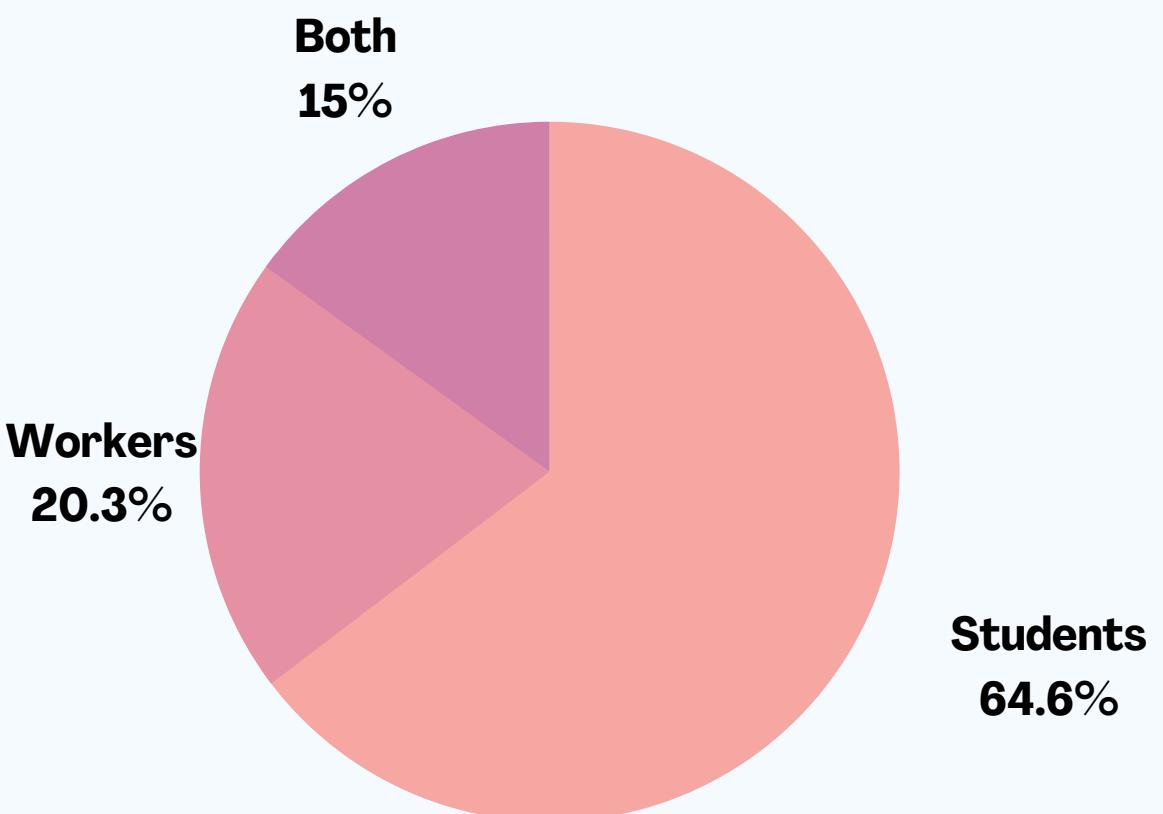


# Survey Result

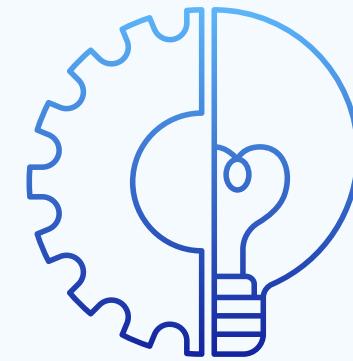
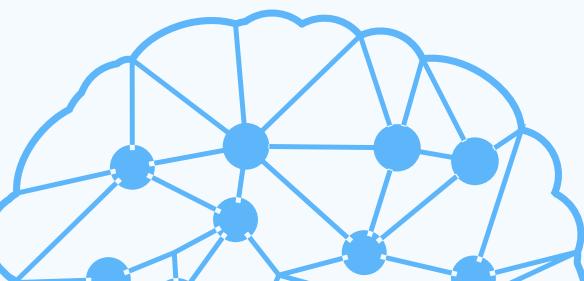
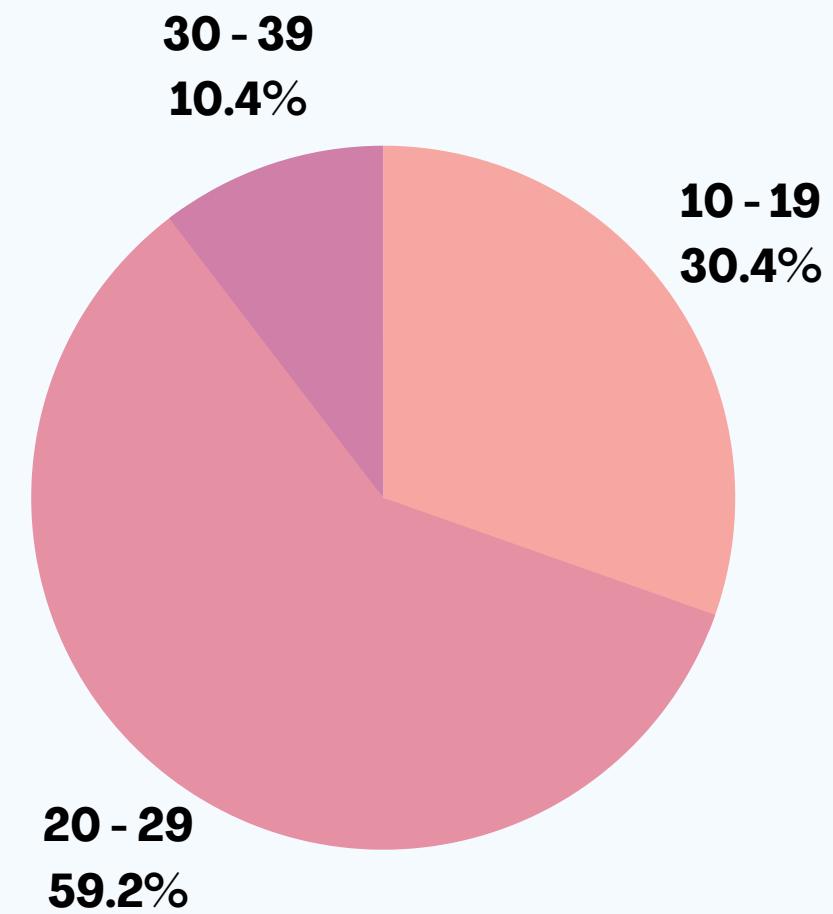
## Gender



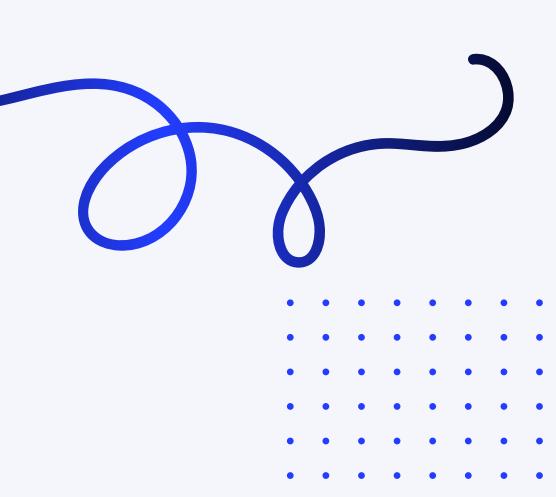
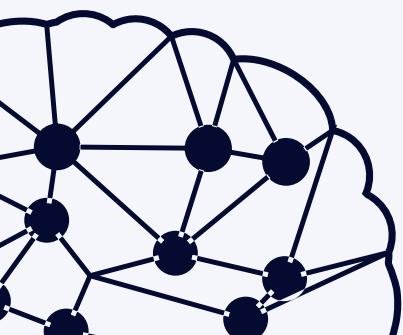
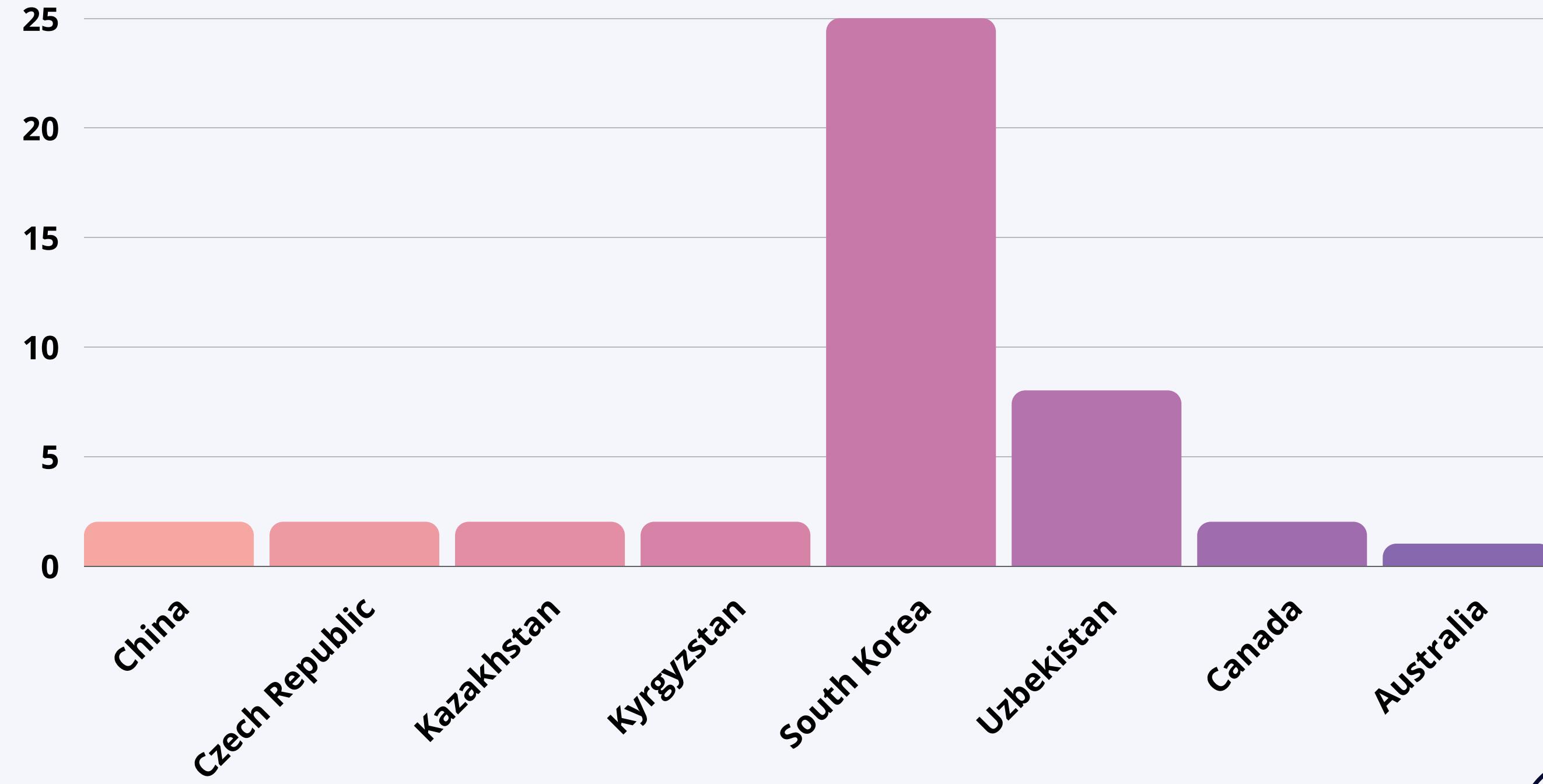
## Occupation

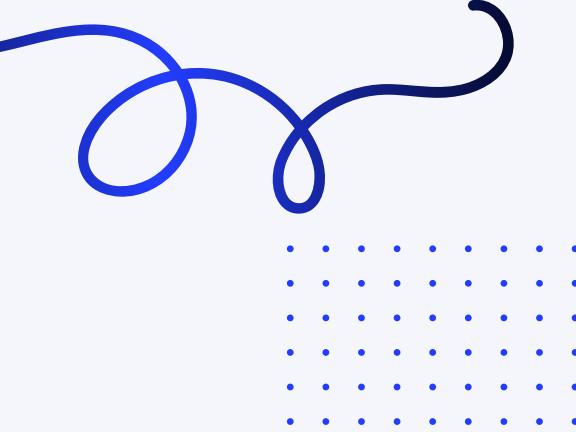


## Age Range

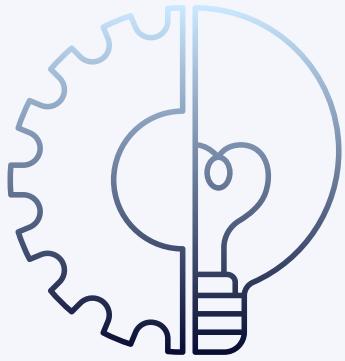


# Countries



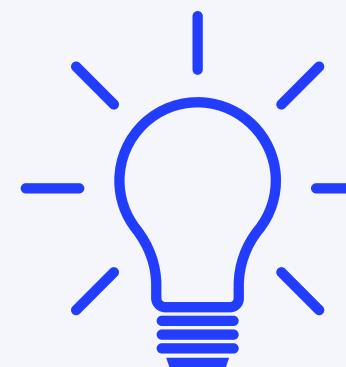


# Common inconveniences



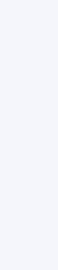
## School

- 01 Wearing masks
- 02 Fear to socialize



## Home

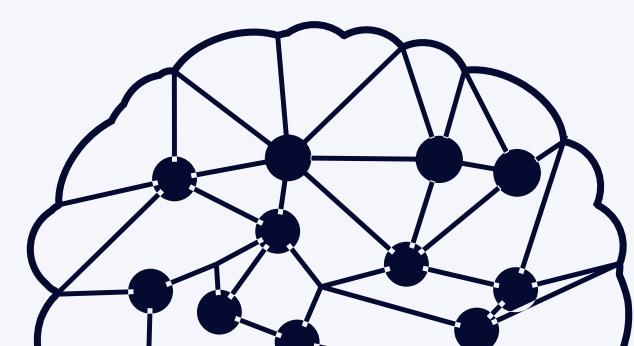
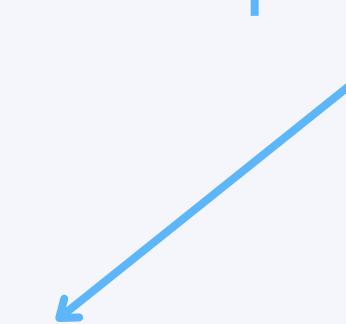
- 01 Restriction in movement (Ex. a family member has been infected)
- 02 Loneliness, Lack of communication



## Hard to Socialize

## Around Community

- 01 Social Distance
- 02 Fear to socialize



# Insights of Covid-19

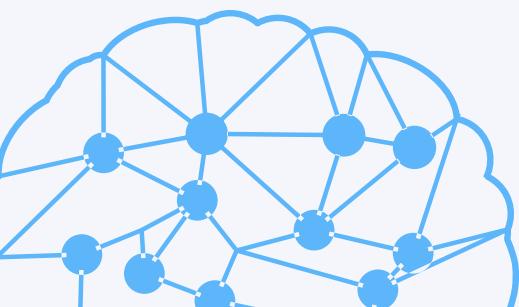
- 01 Online classes reduce the quality of interaction between students
- 02 Lack of confidence in the practical knowledge
- 03 Masks lead to misunderstanding due to low voice
- 04 Less use of Language (esp. for new learners)
- 05 Lack of ability to express yourself
- 06 Fear of getting infected
- 07 Social distance

## Our target audience

- University Students
- Age: 18-24

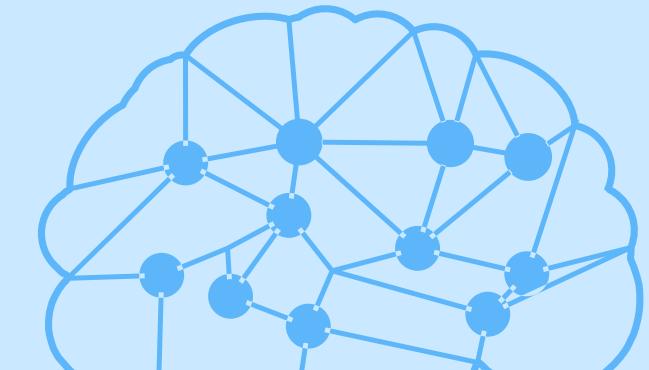
## Their needs

- Better socialization



# **How might we?**

**Improve Communication?**



**communicate safely?**



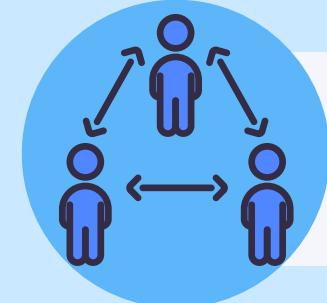
**be able to express ourselves?**



**teach and understand with masks?**



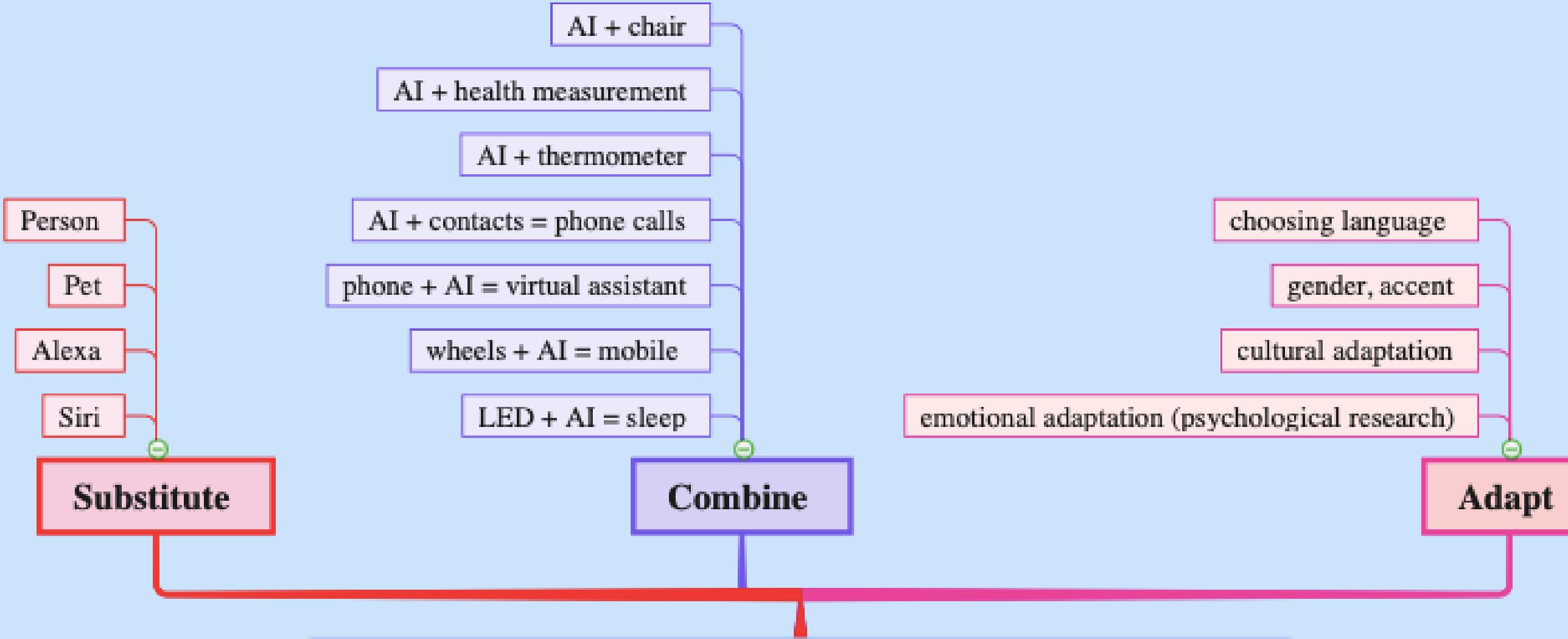
**interact more between students  
during online classes?**



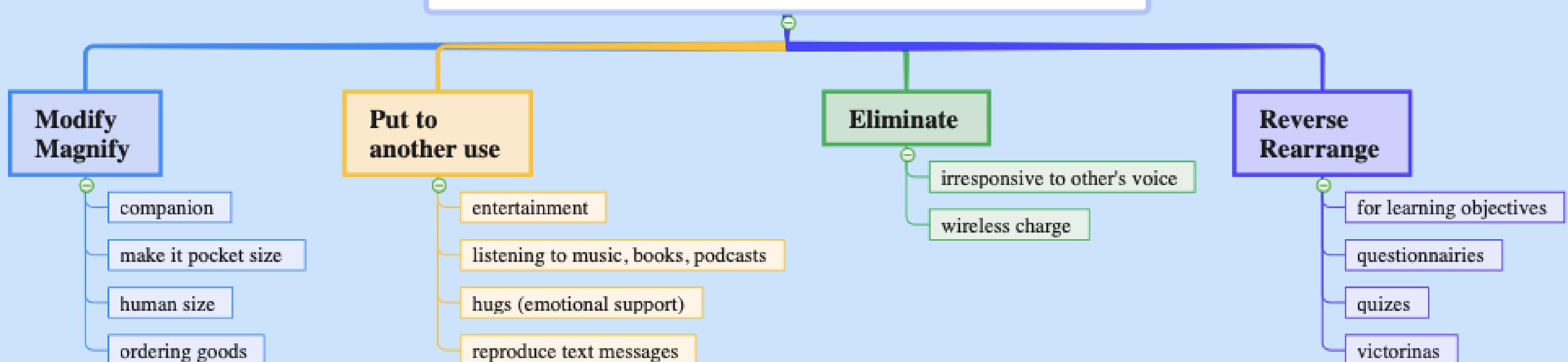
**keep the social distance?**



**increase the practical knowledge?**



## How might we improve communication? AI voice "DI"



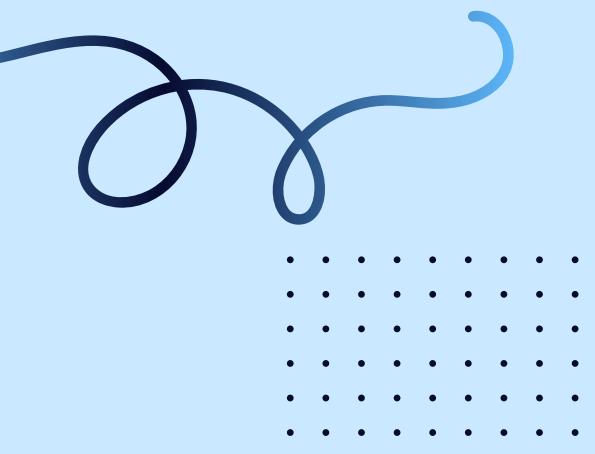
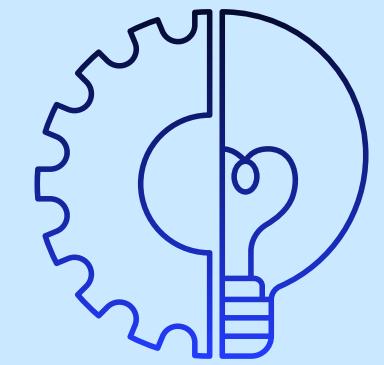
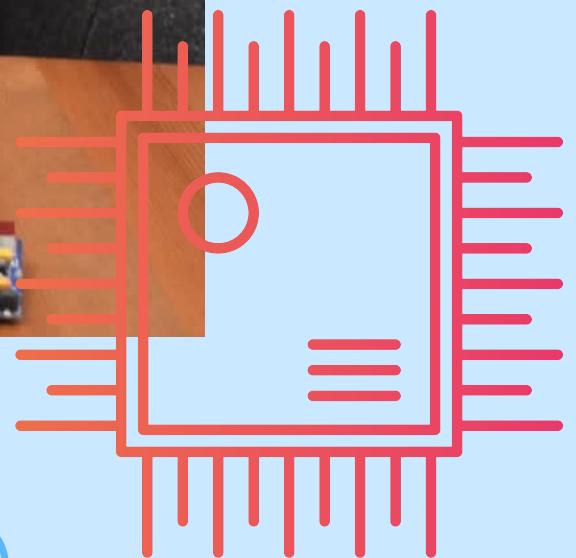
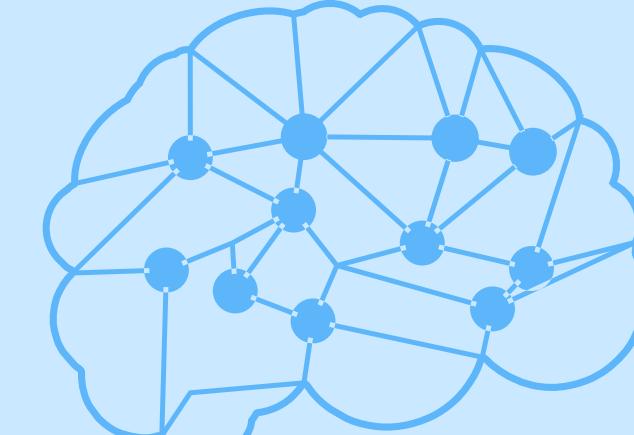
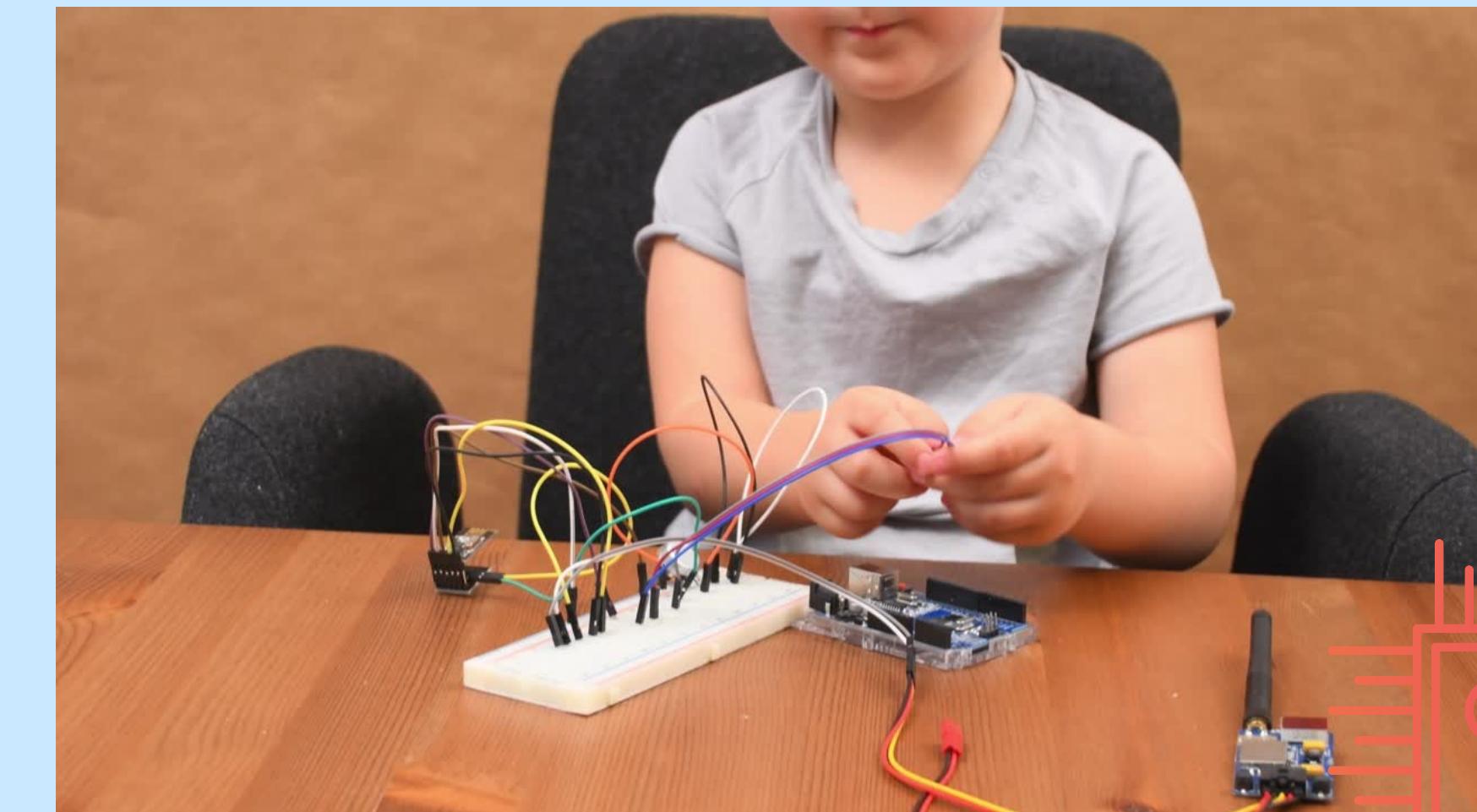
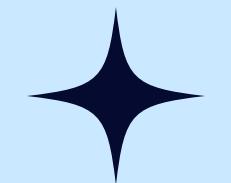
# Arduino



## Sensors



## Actuators



# Sensors

Physical Input

01

Thermometer

02

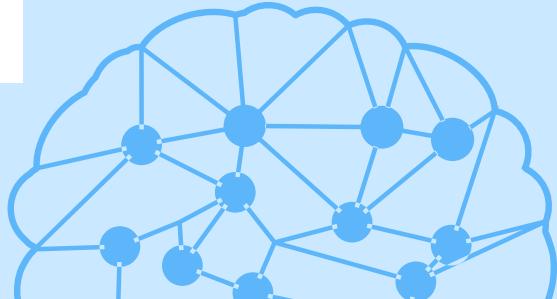
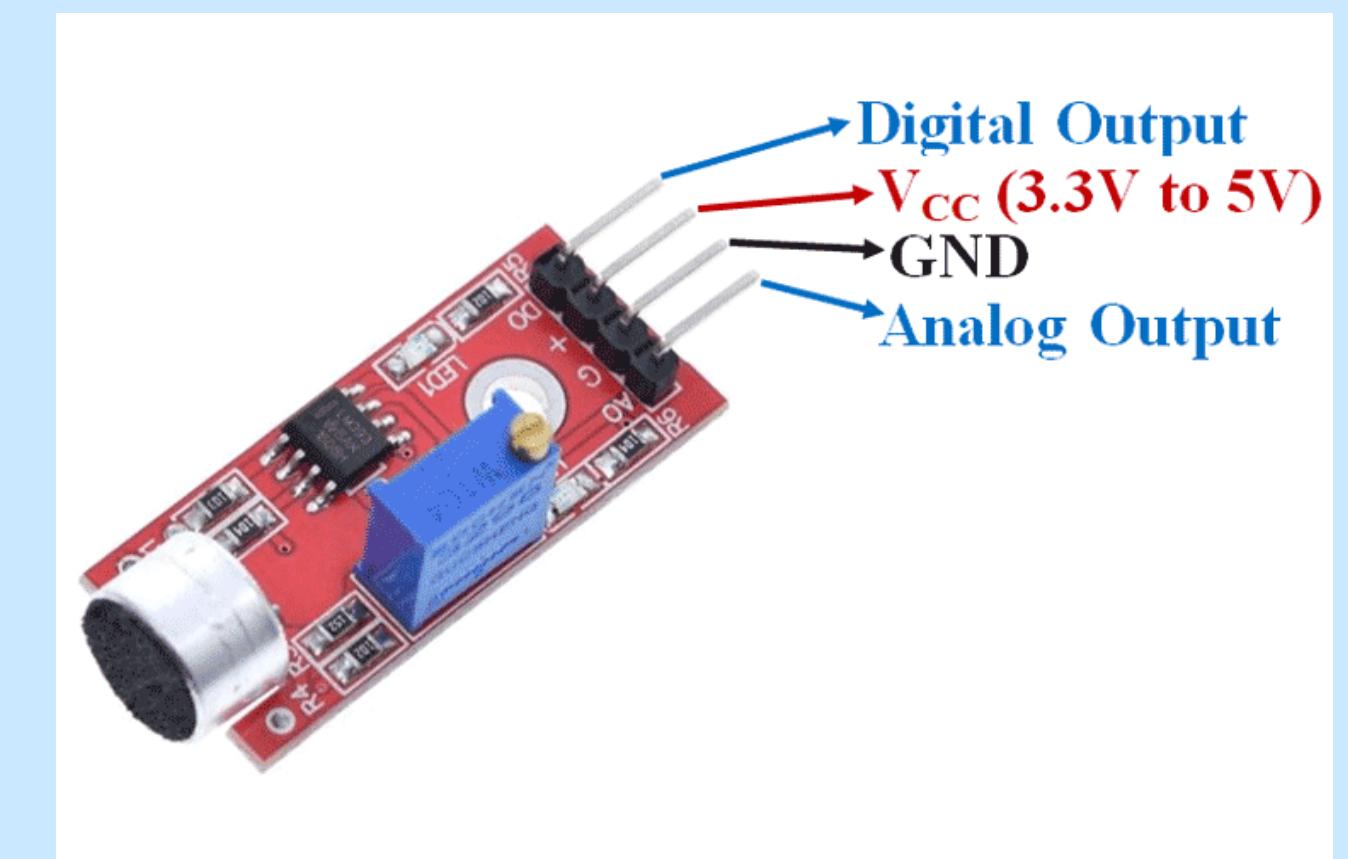
Pressure sensors

03

Pulse sensors

04

Sound Detection Sensor



# Actuators

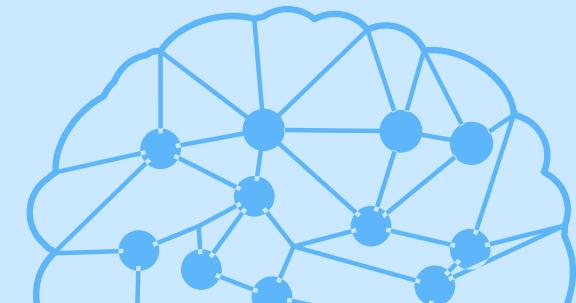
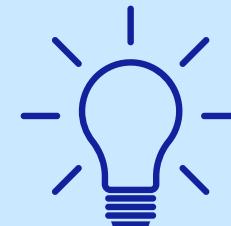
Physical Output

01 LED

02 Electric motor

03 Stepper motor

04 Loudspeaker





THANK  
YOU

Q & A  
ASK AWAY



HIGH VOLTAGE⚡

