CONTENTS

WHAT IS THIS PROJECT ABOUT?

1 **OCTOBER**

International Campus Sustainability Month

2 **FOR OUR TOMORROW**

Analyze what page we are on now.
How we have been changed as we grow and
learn about the environment.
.

3 **INCREASE AWARENESS**

How are we going to increase awareness about
sustainability?
What influenced and changed the participants?

4 **OUR NEXT STEP**

How to develop the method to aware people.
What should we

ABOUT CODE

USED: Pandas
Matlab
WordCloud

- Created Google Form to make own dataset

Sustainability Survey
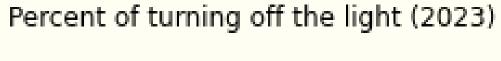
For 2023 TAMU Datathon: Build Your Own.
Please complete the survet. It won't take long.

_____ Switch account
Not shared

* Indicates required question

Please check what applys to you for year of **2023.**

I turn off the light when I'm out of the room. *
○ Yes
○ No
○ Sometimes

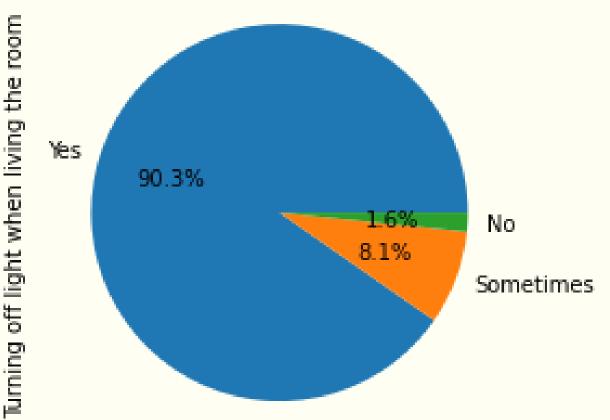I turn off the water when I brush my teeth. *
○ Yes
○ No
○ Sometimes

- Cleaned data

Data Cleaning

```
In [152]:  # import original scores.csv file as df
           df = pd.read_csv("Sustainability_Survey(Responses).csv")

In [153]:  # top 5 rows of csv file
           df.head()

Out[153]:
```

	Timestamp	I turn off the light when I'm out of the room.	I turn off the water when I brush my teeth.	I walk or ride a bike(or bus) instead of driving a car when going to school.	I do recycle.	I use the water bottle and multi-use container instead of disposable product.	I turn off the light when I'm out of the room..1	I turn off the water when I brush my teeth..1	I walk or ride a bike(or bus) instead of driving a car when going to school..1	I do recycle..1	I use the water bottle and multi-use container instead of disposable product..1	I turn off the light when I'm out of the room..2	I turn off the water when I brush my teeth..2	I walk or ride a bike(or bus) instead of driving a car when going to school..2	I do recycle..2	
0	10/28/2023 22:01:32	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
1	10/28/2023 22:05:07	Yes	Yes	Yes	Sometimes	Sometimes	Yes	Sometimes	Sometimes	Yes	Yes	Yes	Sometimes	S		
2	10/28/2023 22:05:21	Yes	Yes	Sometimes	No	Yes	Yes	Yes	Sometimes	Sometimes	Yes	Yes	Yes	No	Yes	S
3	10/28/2023 22:06:33	Yes	Yes	Yes	Sometimes	Sometimes	No	Yes	No	No	No	Yes	Yes	No	No	
4	10/28/2023 22:12:21	Yes	Yes	Yes	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	No	

```
In [159]:  # drop useless colomn
           df.drop (['Timestamp'], axis=1)

Out[159]:
```

	I turn off the light when I'm out of the room.	I turn off the water when I brush my teeth.	I walk or ride a bike(or bus) instead of driving a car when going to school.	I do recycle.	I use the water bottle and multi-use container instead of disposable product.	I turn off the light when I'm out of the room..1	I turn off the water when I brush my teeth..1	I walk or ride a bike(or bus) instead of driving a car when going to school..1	I do recycle..1	I use the water bottle and multi-use container instead of disposable product..1	I turn off the light when I'm out of the room..2	I turn off the water when I brush my teeth..2	I walk or ride a bike(or bus) instead of driving a car when going to school..2	I do recycle..2
0	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
1	Yes	Yes	Yes	Sometimes	Sometimes	Yes	Yes	Yes	Sometimes	Sometimes	Yes	Yes	Yes	Sometimes
2	Yes	Yes	Sometimes	No	Yes	Yes	Yes	Sometimes	Sometimes	Yes	Yes	Yes	No	Yes
3	Yes	Yes	Sometimes	Sometimes	No	Yes	No	No	No	No	Yes	Yes	No	No
4	Yes	Yes	Yes	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	No

DATA VISUALIZATION
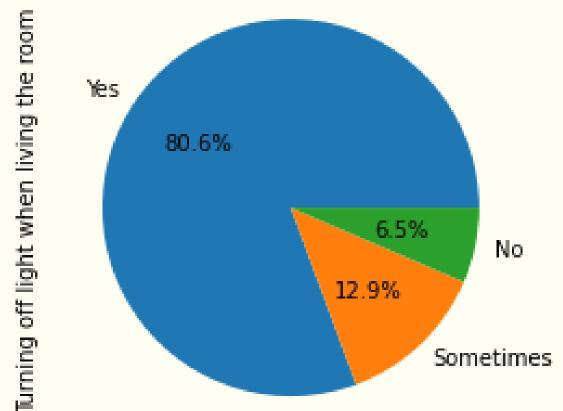
I TURN OFF THE LIGHT WHEN I'M OUT OF THE ROOM.

Percent of turning off the light (2023)

Turning off light when living the room

Yes 90.3%
8.1% Sometimes
1.6% No
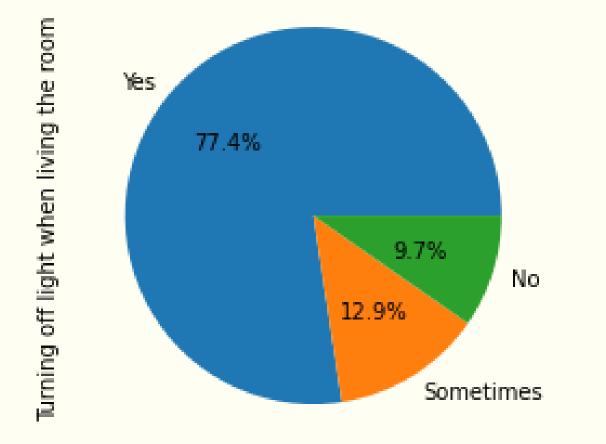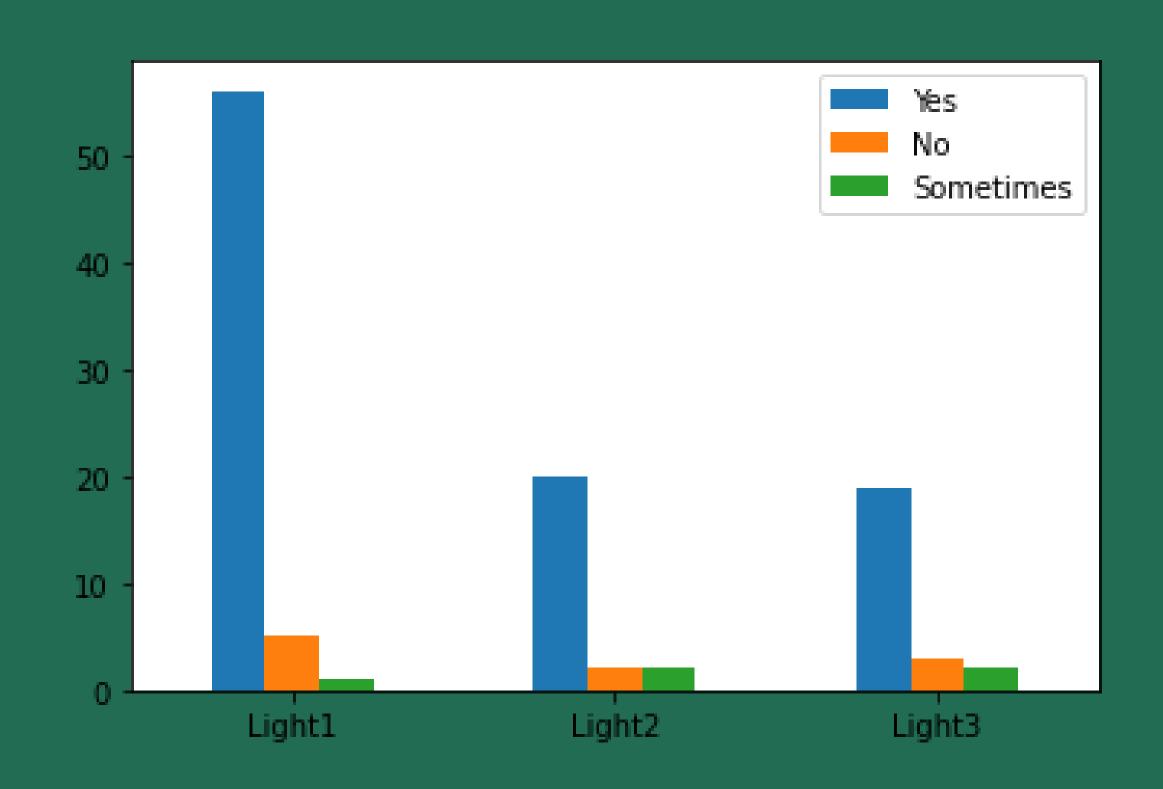
Percent of turning off the light (last 5 years)

Turning off light when living the room

Yes 80.6%
12.9% Sometimes
6.5% No

Percent of turning off the light (last 10 years)

Turning off light when living the room

Yes 77.4%
12.9% Sometimes
9.7% No

I TURN OFF THE LIGHT WHEN I'M OUT OF THE ROOM.
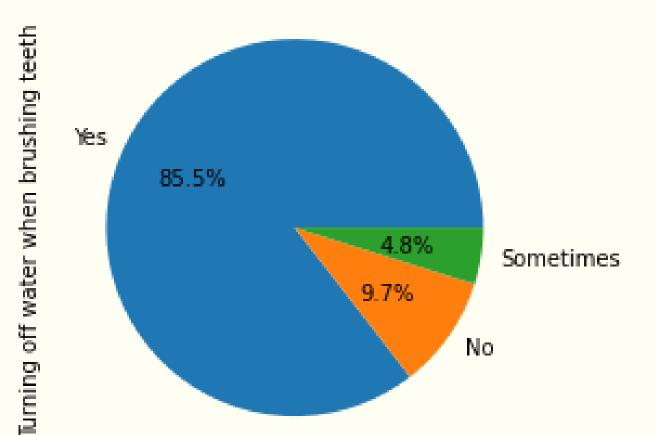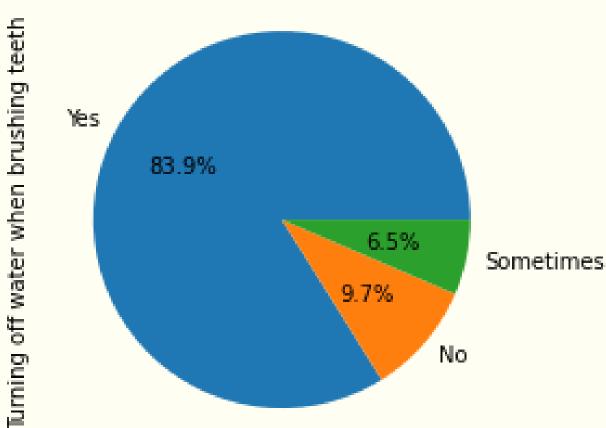
I TURN OFF THE WATER WHEN I BRUSH MY TEETH.

Percent of turning off the water (2023)
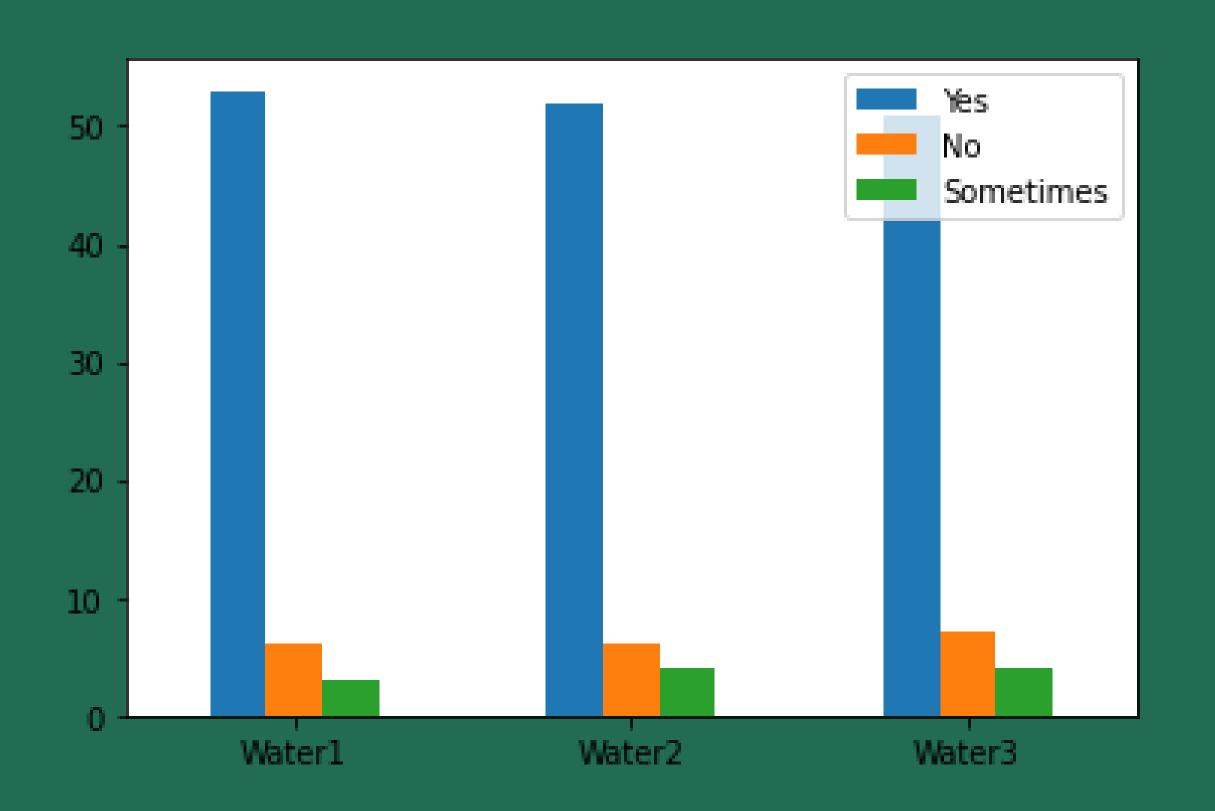

Turning off water when brushing teeth

Yes
85.5%
4.8% Sometimes
9.7%
No
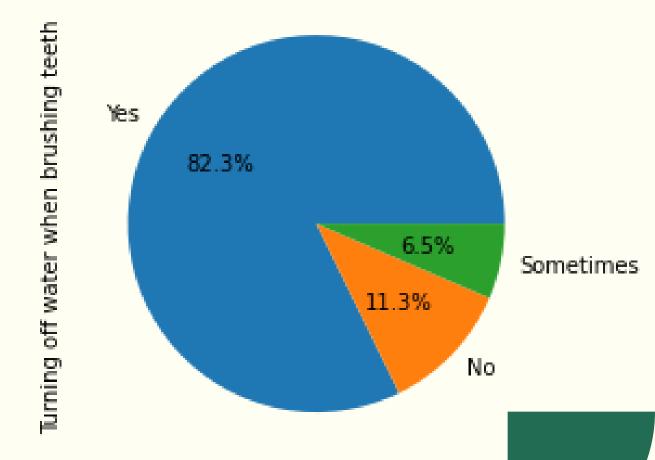
Percent of turning off the water (last 5 years)

Turning off water when brushing teeth

Yes
83.9%
6.5% Sometimes
9.7%
No

Percent of turning off the water (last 10 years)

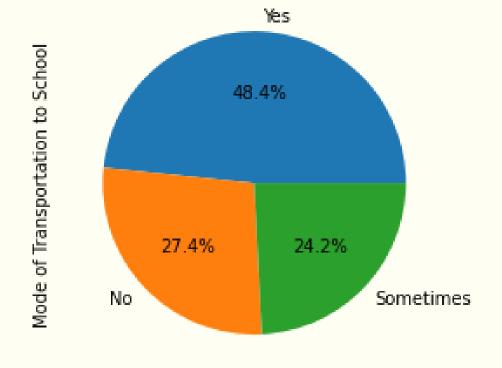Turning off water when brushing teeth
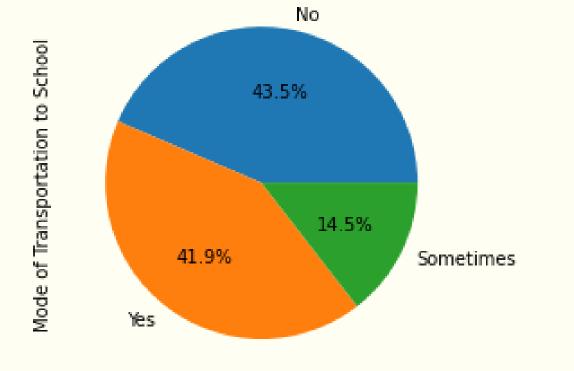
Yes
82.3%
6.5% Sometimes
11.3%
No
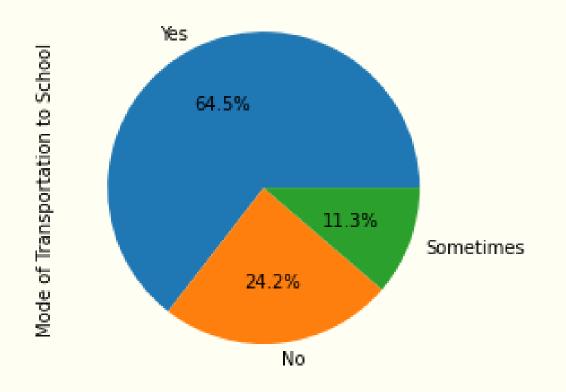
I TURN OFF THE WATER WHEN I BRUSH MY TEETH.
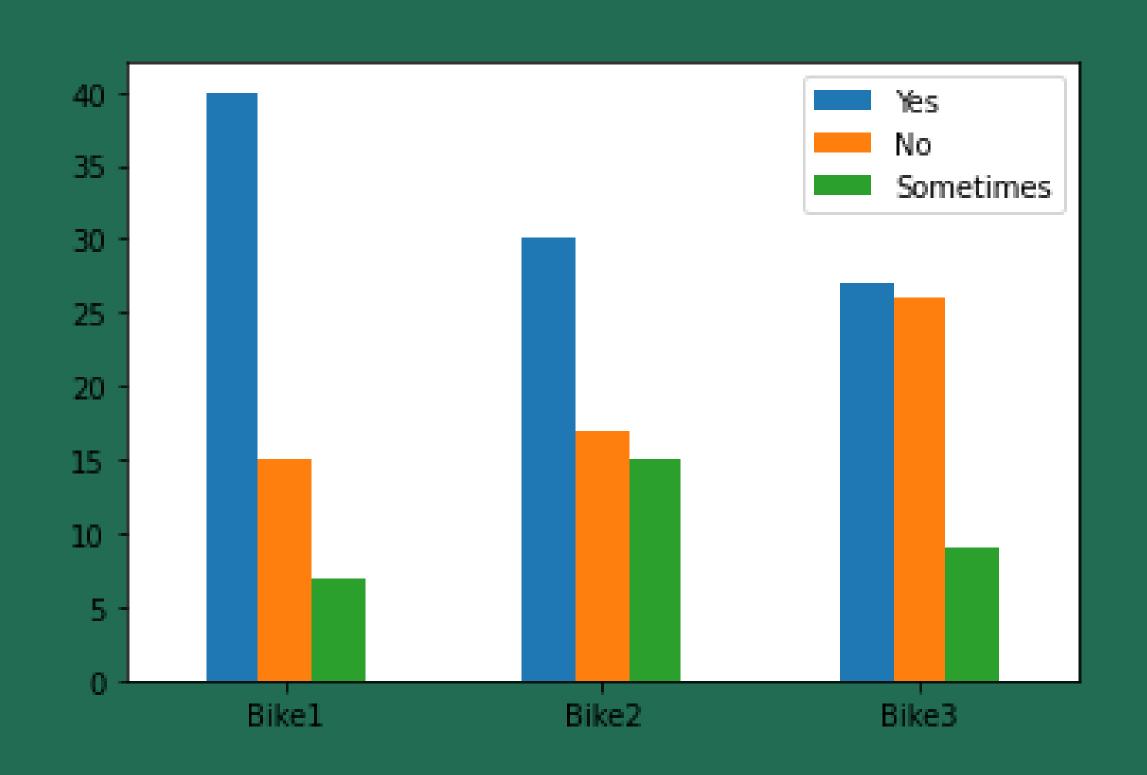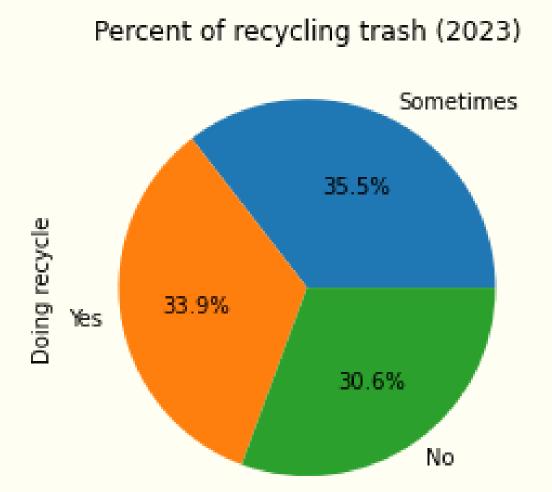
I WALK/BIKE/BUS INSTEAD OF DRIVING TO THE SCHOOL

Percent of riding a bike/bus instead of driving (2023)

Mode of Transportation to School

Yes 64.5%
No 24.2%
Sometimes 11.3%

Percent of riding a bike/bus instead of driving (last 5 years)

Mode of Transportation to School

Yes 48.4%
No 27.4%
Sometimes 24.2%

Percent of riding a bike/bus instead of driving (last 10 years)

Mode of Transportation to School

No 43.5%
Yes 41.9%
Sometimes 14.5%

I DO RECYCLE.

Percent of recycling trash (2023)

- Sometimes: 35.5%
- Yes: 33.9%
- No: 30.6%
- Doing recycle / Yes

Percent of recycling trash (last 5 years)

- Yes: 46.8%
- Sometimes: 32.3%
- No: 21.0%
- Doing recycle

Percent of recycling trash (last 10 years)
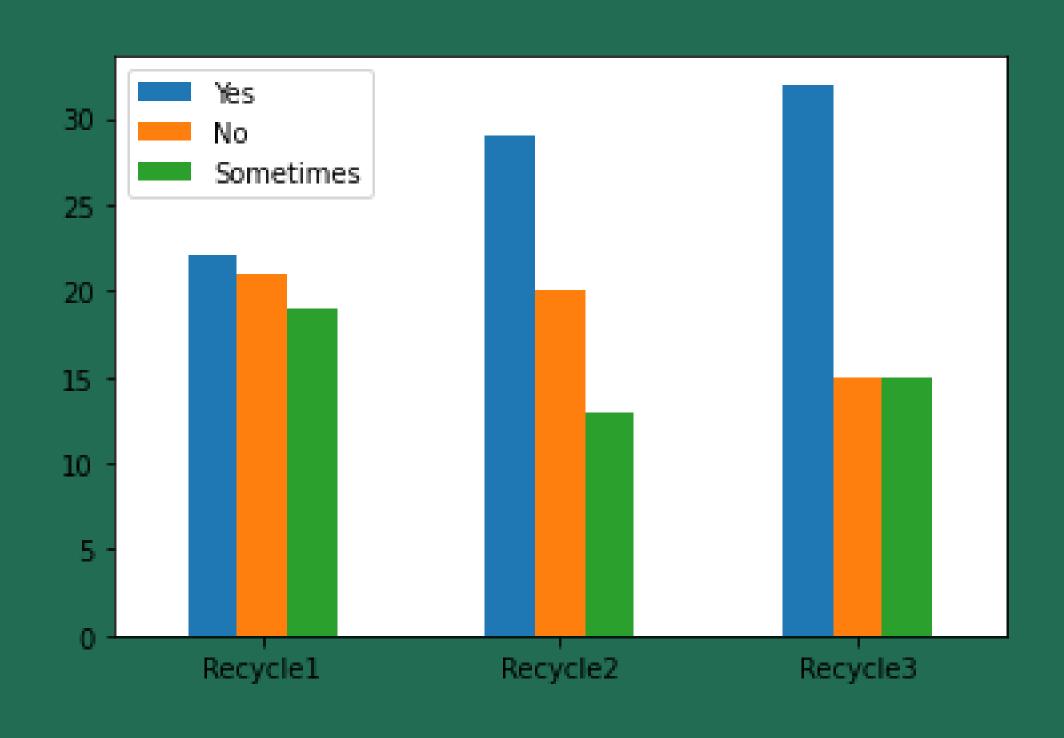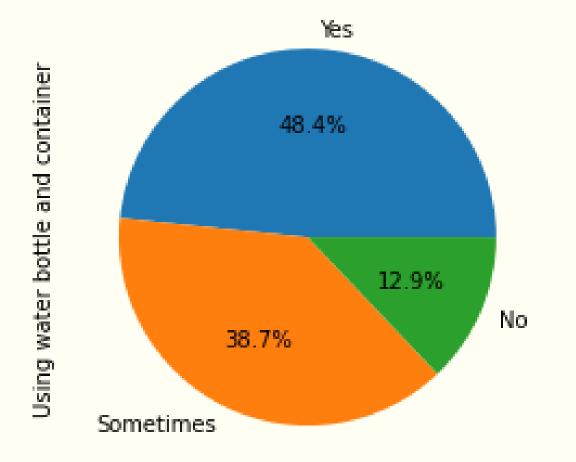
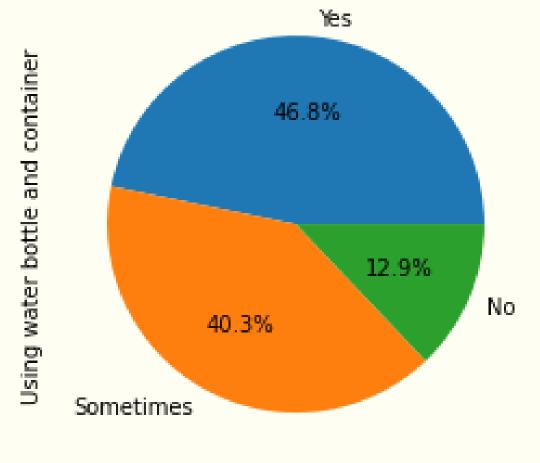- Yes: 51.6%
- Sometimes: 24.2%
- No: 24.2%
- Doing recycle

I DO RECYCLE.

I USE A MULTI-CONTAINER INSTEAD OF DISPOSABLE PRODUCT.
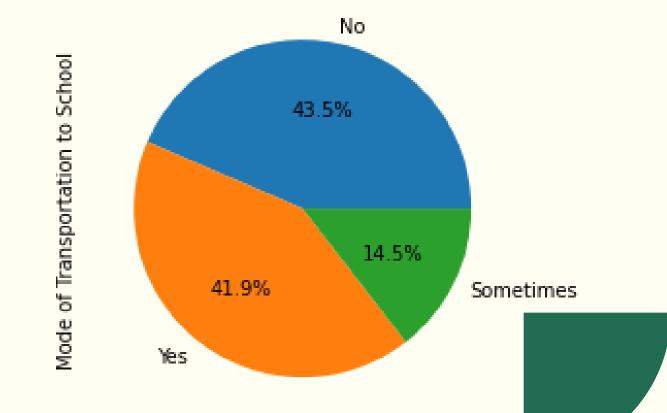
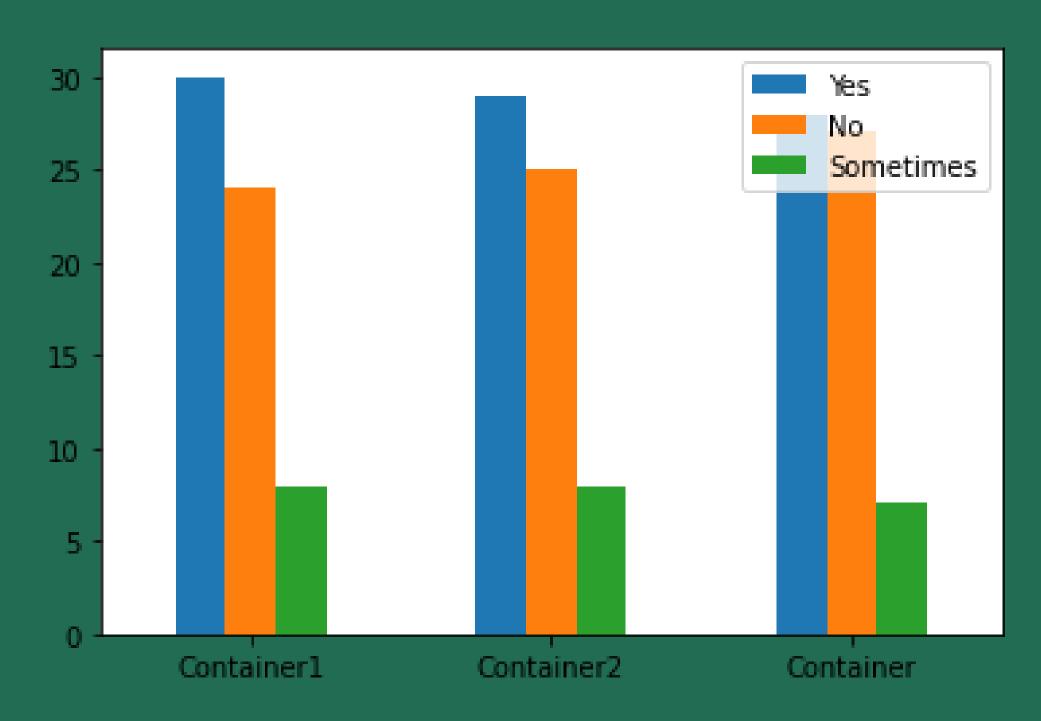**Percent of useing multi-use container (last 5 years)**
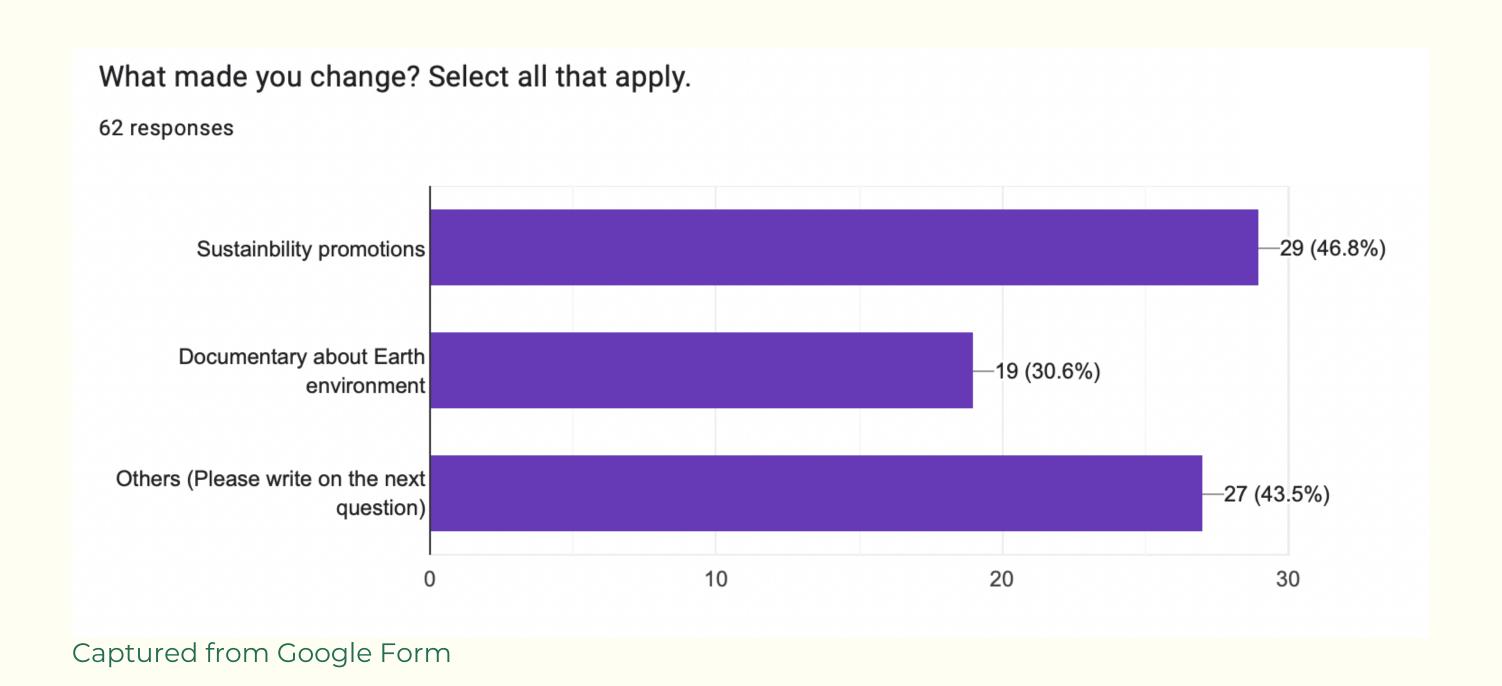
Using water bottle and container

- Yes — 46.8%
- Sometimes — 40.3%
- No — 12.9%

Percent of useing multi-use container (2023)

Using water bottle and container

- Yes — 48.4%
- Sometimes — 38.7%
- No — 12.9%

Percent of riding a bike/bus instead of driving (last 10 years)

Mode of Transportation to School

- No — 43.5%
- Yes — 41.9%
- Sometimes — 14.5%
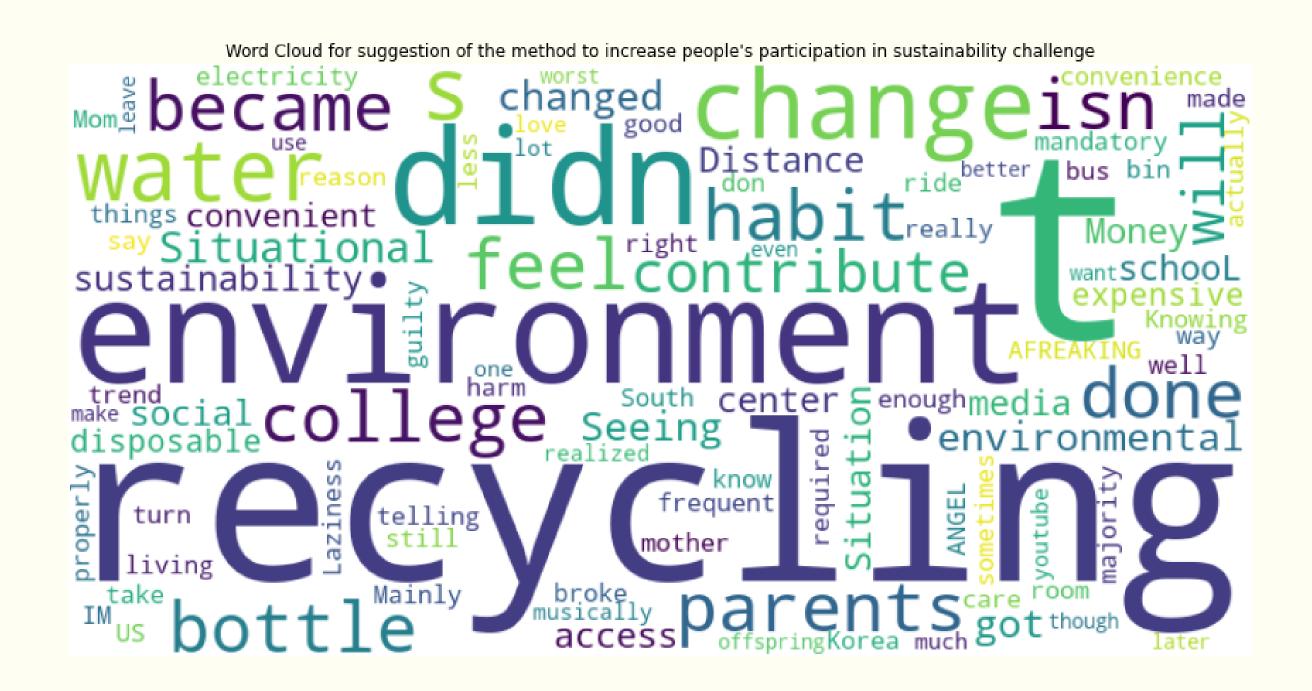
I USE A MULTI-CONTAINER INSTEAD OF DISPOSABLE PRODUCT.

WORD CLOUD

What made you change? Select all that apply.

62 responses

Sustainbility promotions	29 (46.8%)
Documentary about Earth environment	19 (30.6%)
Others (Please write on the next question)	27 (43.5%)

Captured from Google Form

WORD CLOUD

Word Cloud for suggestion of the method to increase people's participation in sustainability challenge
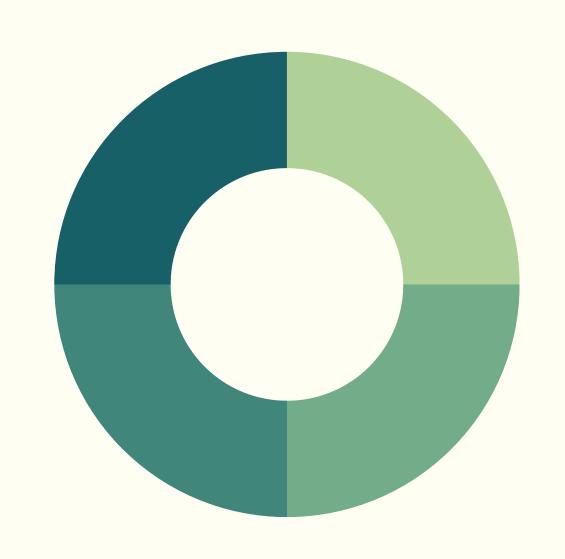
WHAT'S NEXT?

PROMOTION

Sustainability promotion should be more often.

WATERBOTTLE

Promote using waterbottles. Not too heavy, something casual

DOCUMENTARY

Create and share more documentary videos about the Earth, our environment, and energy.

CONTRIBUTION

Make people feel like they are contributing to a big deal.

Thank You

☎ (956)638-8850

✉ kyeongstudy@tamu.edu