



# SMART TRASH-BIN

Engineering Clinics Project



# meet our team

DHYAN  
20BCE7648  
SCOPE

VENKATA KARTHIK DRAKSHARAM  
20BCN7028  
SCOPE

KHUSHI SHARMA  
20BCN7001  
SCOPE

ADUSUMILLI SERISHMA  
20BES7039  
SENSE

TWINKLE KUMARI  
20BCN7023  
SCOPE

L SHANMUKHA SAI SRIVALLI  
20BES7054  
SENSE

A stylized, dark grey leaf graphic with several pointed leaves, located in the top left corner of the slide.

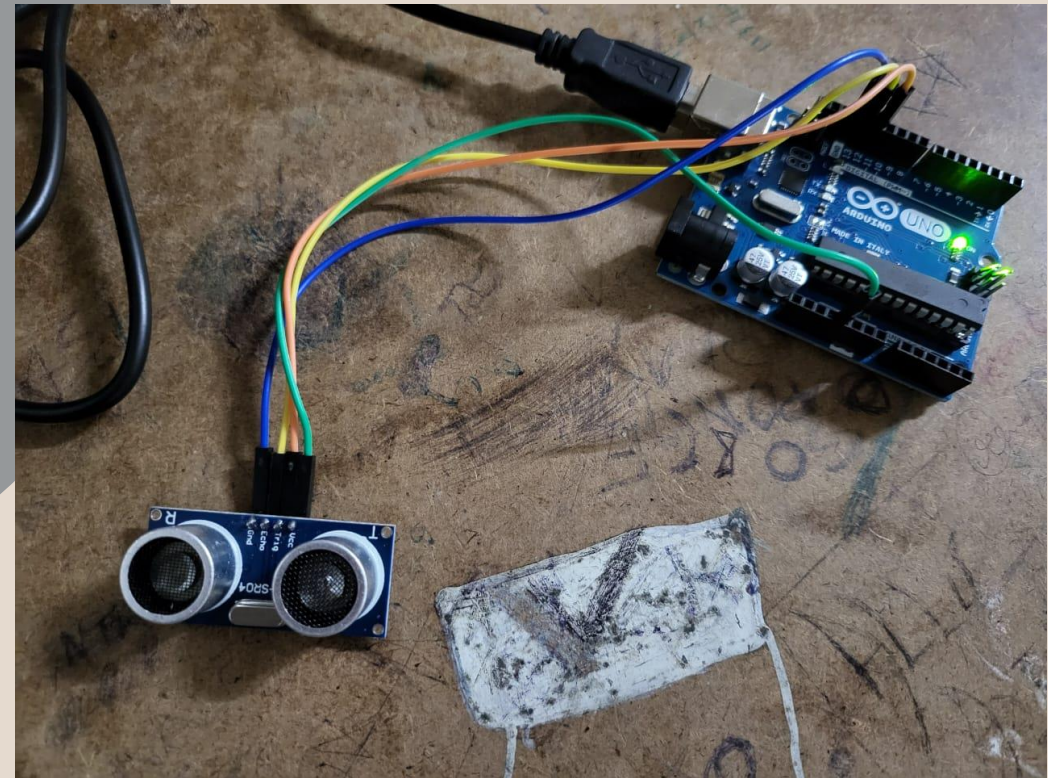
# Working with Arduino

A large, abstract graphic on the left side of the slide. It consists of a dark grey circle and a light beige circle that overlap. A thin white line forms a partial circle at the bottom left, intersecting the other shapes.

# Ultrasonic Sensor

## Output

```
Message from Serial to Console: Message 1: 2cm
2cm
Sensor1 2cm
Sensor1 2cm
Sensor1 5cm
Sensor1 251cm
Sensor1 251cm
Sensor1 251cm
Sensor1 252cm
Sensor1 251cm
Sensor1 251cm
Sensor1 251cm
Sensor1 251cm
Sensor1 251cm
Sensor1 251cm
Sensor1 252cm
Sensor1 250cm
Sensor1 19cm
Sensor1 15cm
Sensor1 251cm
Sensor1 251cm
Sensor1 252cm
Sensor1 254cm
Sensor1 4cm
```

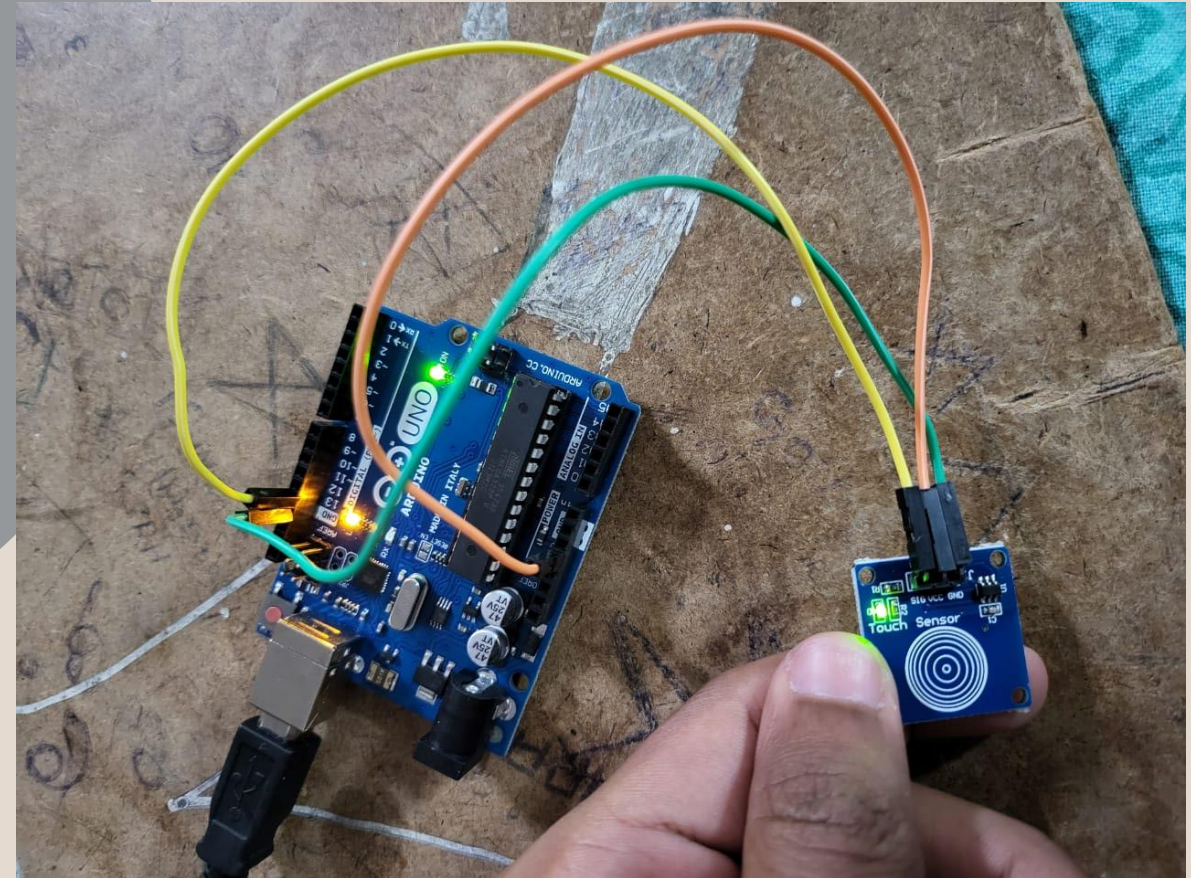




## Touch Sensor(DRY WASTE)

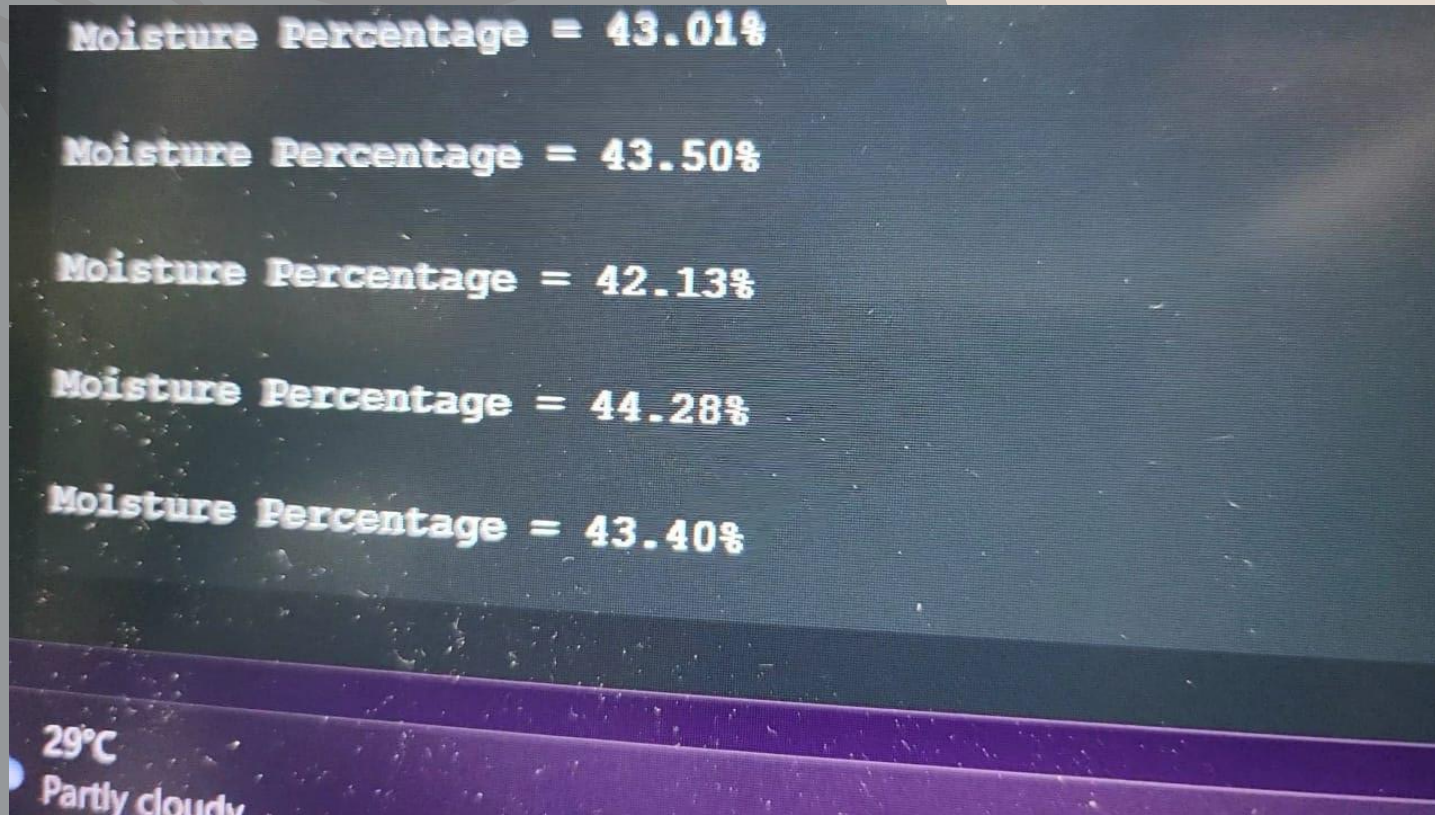
Output

```
Touch sensor activated  
Touch sensor activated  
Touch sensor activated  
Touch sensor activated  
Touch sensor activated  
Touch sensor activated  
Touch sensor activated  
Touch sensor activated  
Touch sensor activated  
Touch sensor activated  
Touch sensor activated
```



## Moisture Sensor (WET WASTE)

### Output



Moisture Percentage = 43.01%

Moisture Percentage = 43.50%

Moisture Percentage = 42.13%

Moisture Percentage = 44.28%

Moisture Percentage = 43.40%

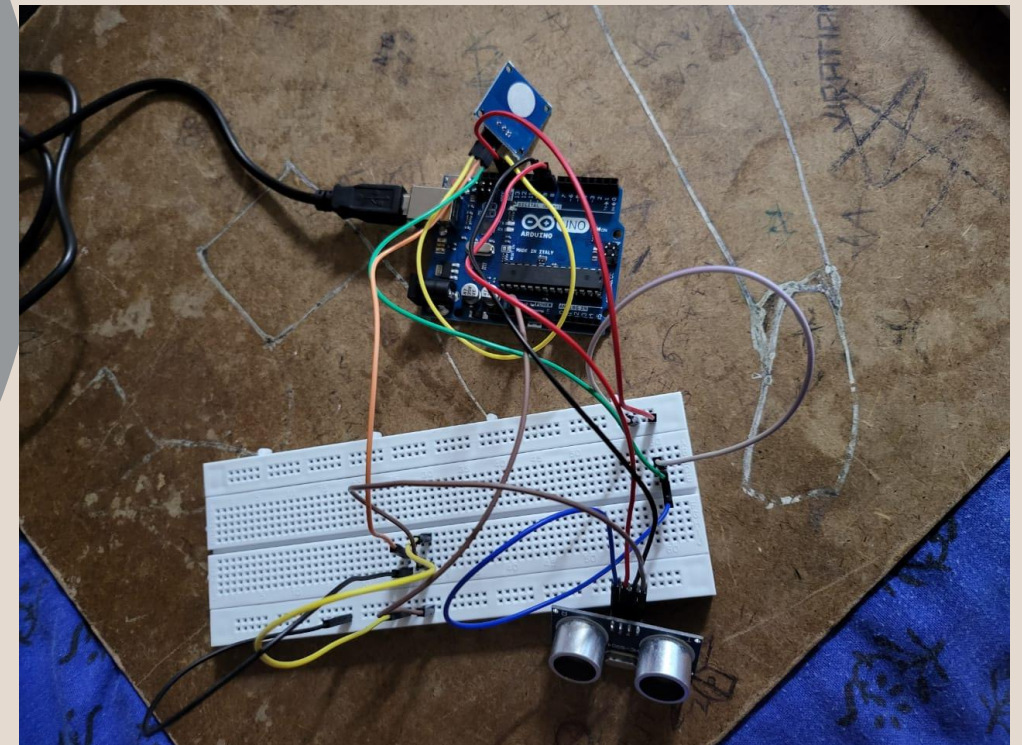
29°C  
Partly cloudy



Activation of Touch Sensor when the user is within range

Output

```
Sensor1 2cm  
Sensor1 3cm  
Touch sensor activated and inrange  
Sensor1 2cm  
Touch sensor activated and inrange  
Sensor1 3cm  
Touch sensor activated and inrange  
Sensor1 3cm  
Sensor1 3cm  
Out of range  
Out of range  
Out of range  
Out of range  
Out of range  
Out of range  
Sensor1 4cm  
Sensor1 3cm  
Out of range  
Sensor1 4cm  
Out of range  
Out of range  
Out of range
```



## Working of conveyor belt (Waste Segregation)





The background features a light gray base with large, soft-edged organic shapes in muted red and olive green. A thin white line outlines a shape on the right. In the top left, there is a faint sketch of a leafy branch.

thank you