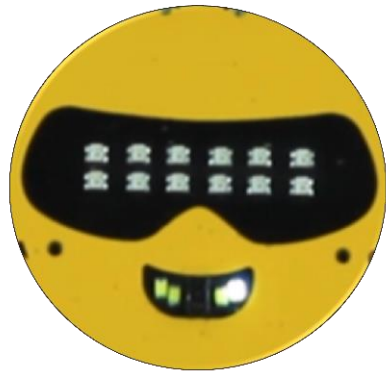


# Light Up and Smiling

**How does a robot mimic your smile/emotions?**

**About project:** In this project, we will explore how human emotions can be applied to a robot. We will create and program a robotic smile and other emotional expressions using code.



# Prerequisite

- Current
- Voltage
- Resistance
- Flow of electricity

# Learning Outcomes

## We Will Learn About-

- Different types of numbers
- Sorted ordered of numbers( ascending/ descending )
- Circuit(open/close)
- How electricity flow
- Conductors

**Ask About....**

# STEAM

**SCIENCE:** Current, voltage, Resistance, Flow of electricity, luminous, luminous intensity, Light, conductors .

**ARTs:** Shape and designs

**Technology/Engineering:**  
Introduction to microcontrollers and coding, Sequential programming for LED operation.

**Mathematics:**  
Numbers, sorting order, wait time calculation.