

CONTROL SYSTEMS

PROJECT TITLE : SMART
HOUSE

Group members :

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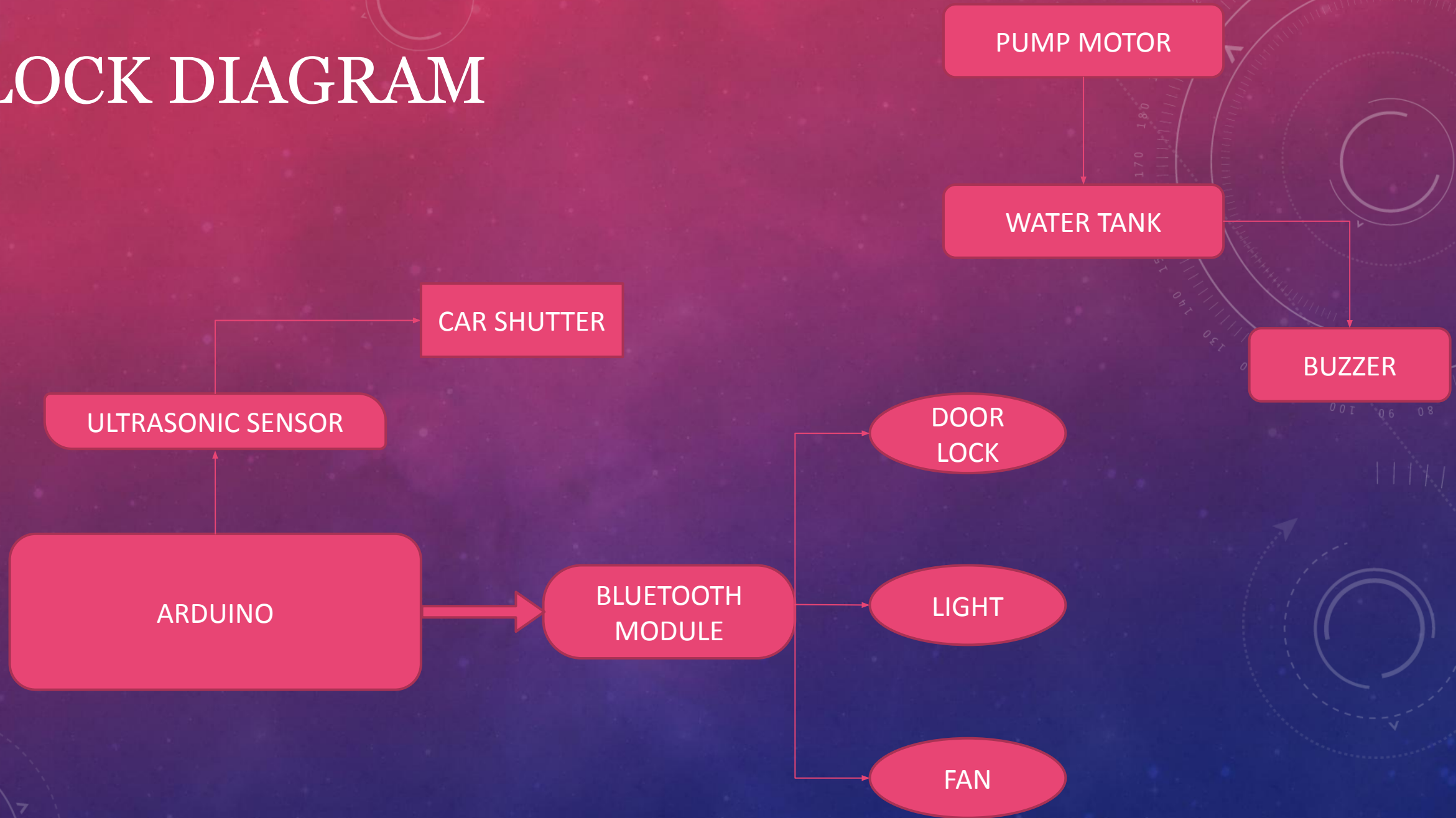
COURSE INSTRUCTOR
HRISHIKESH

VENKATARAMAN

MOTIVATION

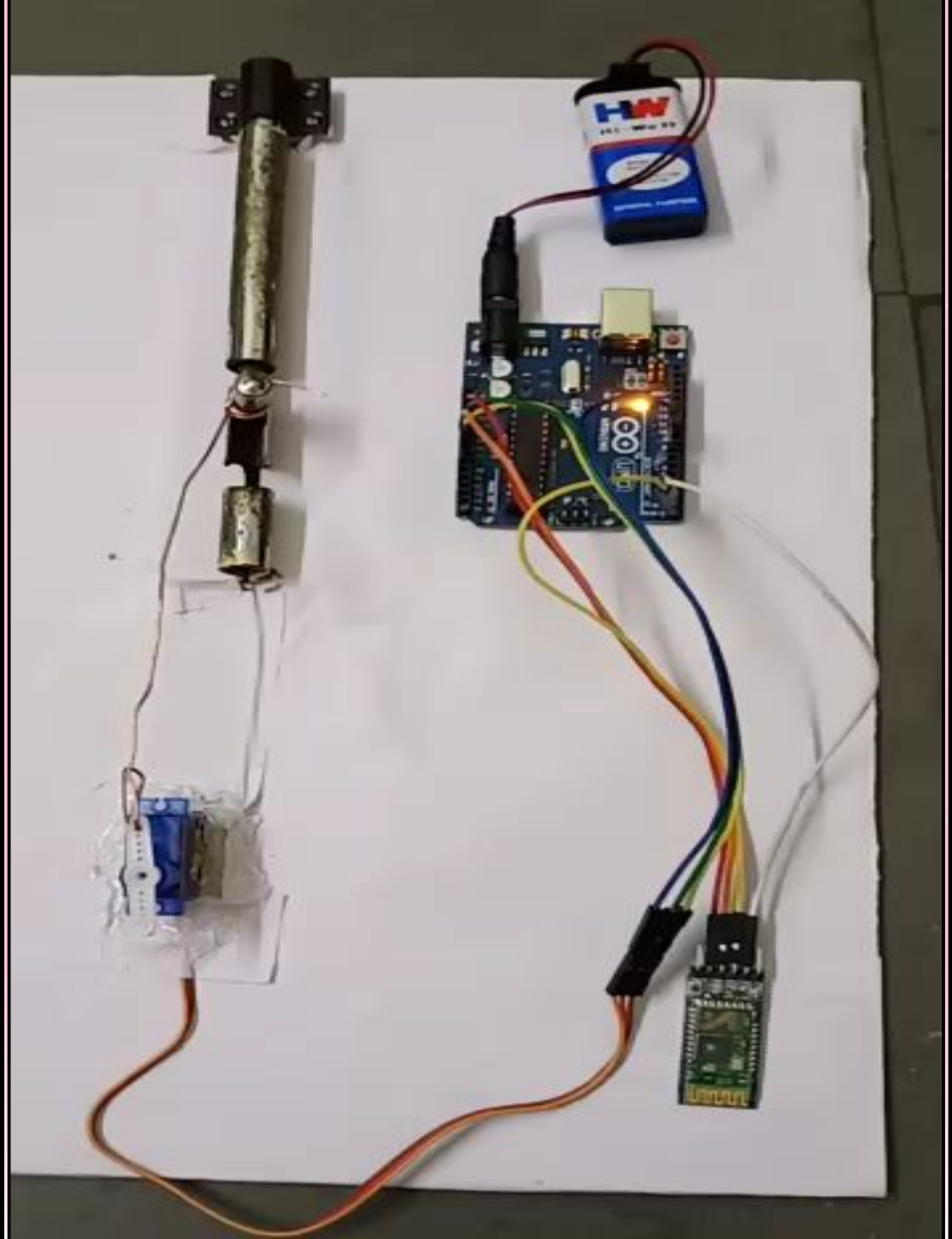
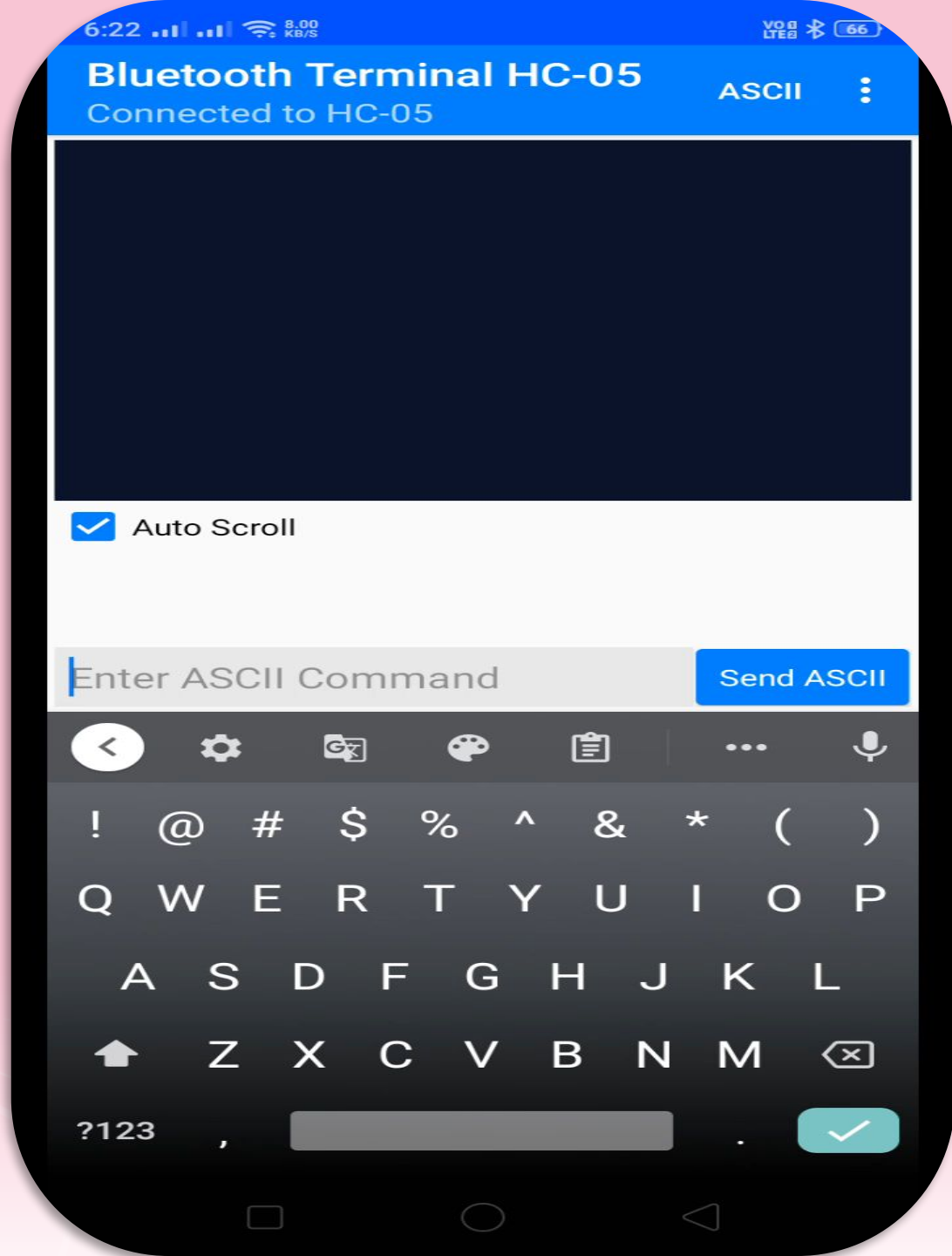
- TO SAVE THE WATER
- TO SAVE THE ELECTRICITY
- TO MAKE THE HUMAN LIFESTYLE BETTER AND EASIER
- PEOPLE ARE MORE INTERESTED ON WIRELESS EMBEDDED SYSTEMS, TO MAKE THE FUTURE LIFESTYLE BETTER.

BLOCK DIAGRAM



DOOR LOCK

- A BLUETOOTH BASED DOOR LOCK SYSTEM IS FIXED IN THE HOME
- BASED ON THE ENTRY OF INPUTS, LOCKING AND UNLOCKING OF THE DOOR HAPPENS
- IF THE ENTRY IS D – DOOR WILL BE UNLOCKED
- IF THE ENTRY IS d – DOOR WILL BE LOCKED



FAN AND LIGHT

- ❑ A BLUETOOTH BASED FAN AND LIGHT SYSTEM IS FIXED IN THE HOME
- ❑ BASED ON THE ENTRY OF INPUTS, TURNING ON AND OFF OF THE LIGHTS AND FAN HAPPENS
- ❑ IF THE ENTRY IS F – FAN WILL BE TURNED ON
- ❑ IF THE ENTRY IS f – FAN WILL BE TURNED OFF
- ❑ IF THE ENTRY IS L – LIGHT WILL BE TURNED ON
- ❑ IF THE ENTRY IS l – LIGHT WILL BE TURNED OFF

Connected to HC-05

[12 Nov 2020 4:30:46 pm] ASCII:

Input Value is : F

Input Value is :

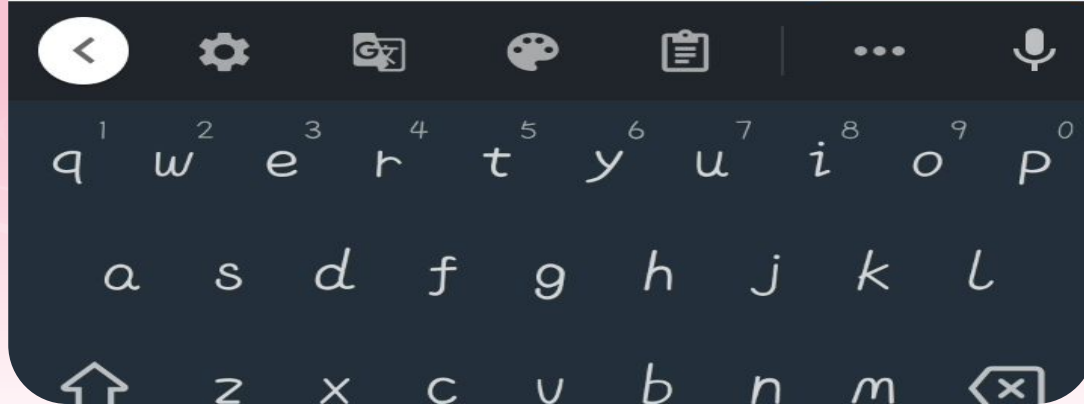
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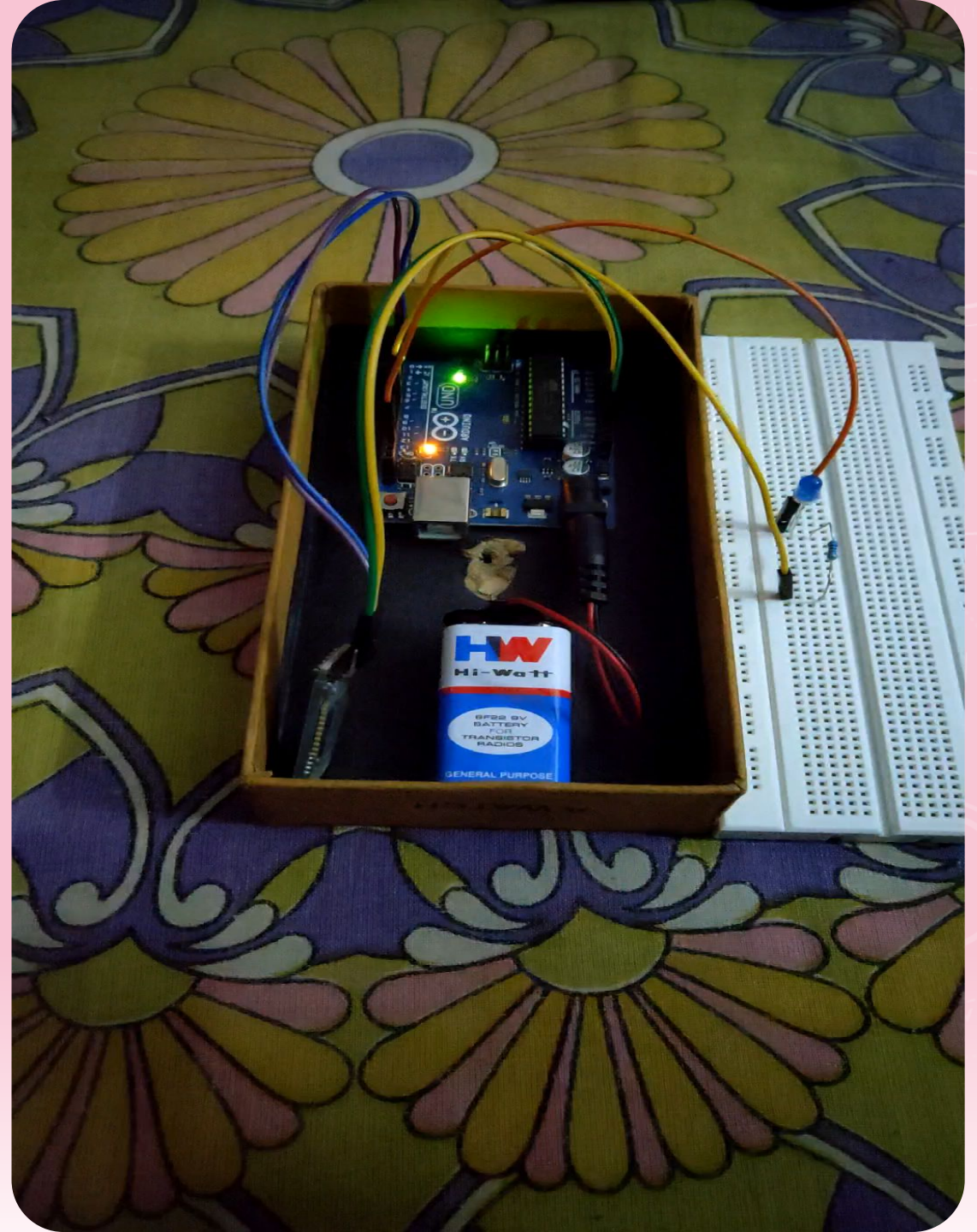
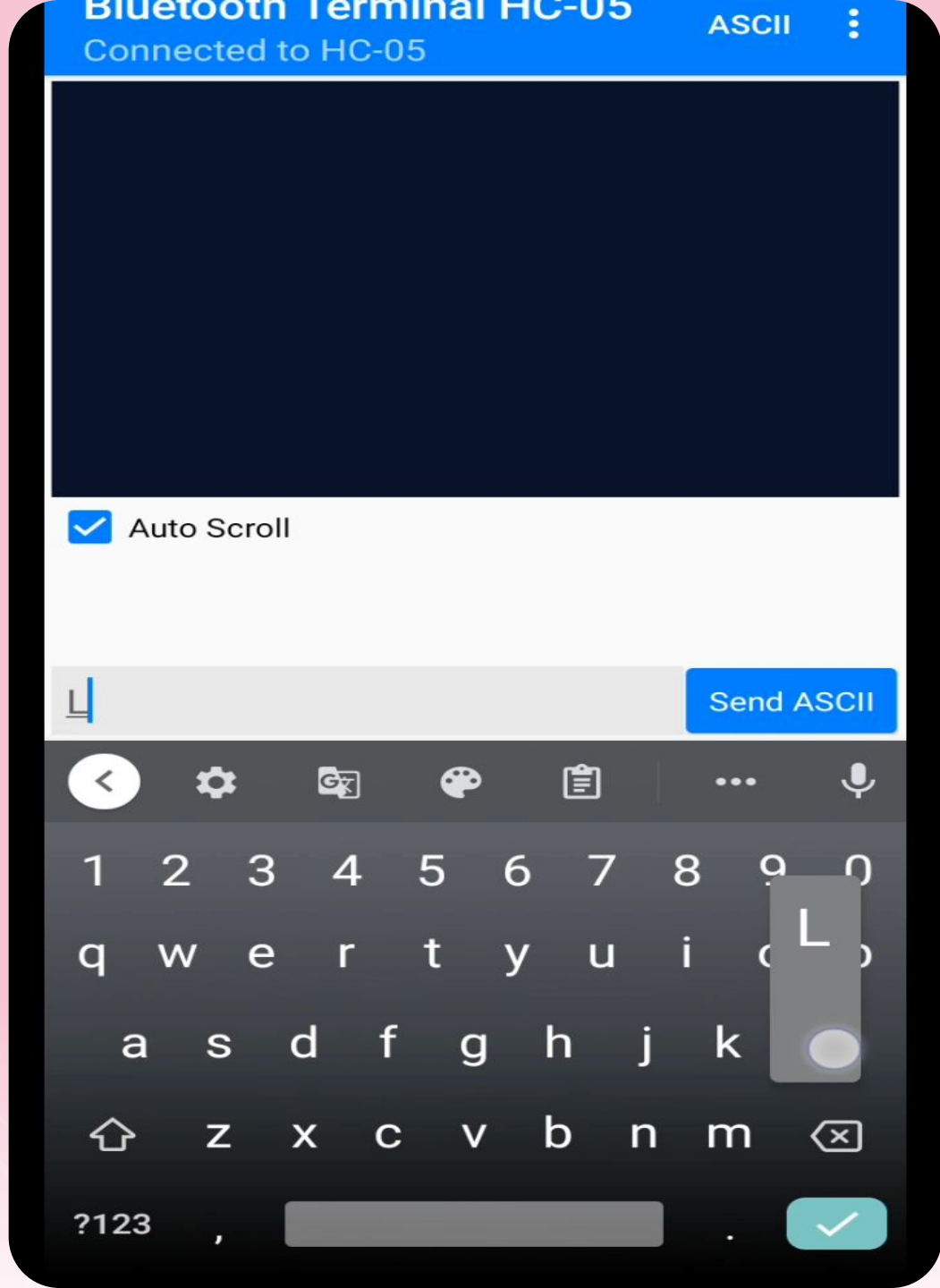
☒ Auto Scroll

ASCII: F

Enter ASCII Command

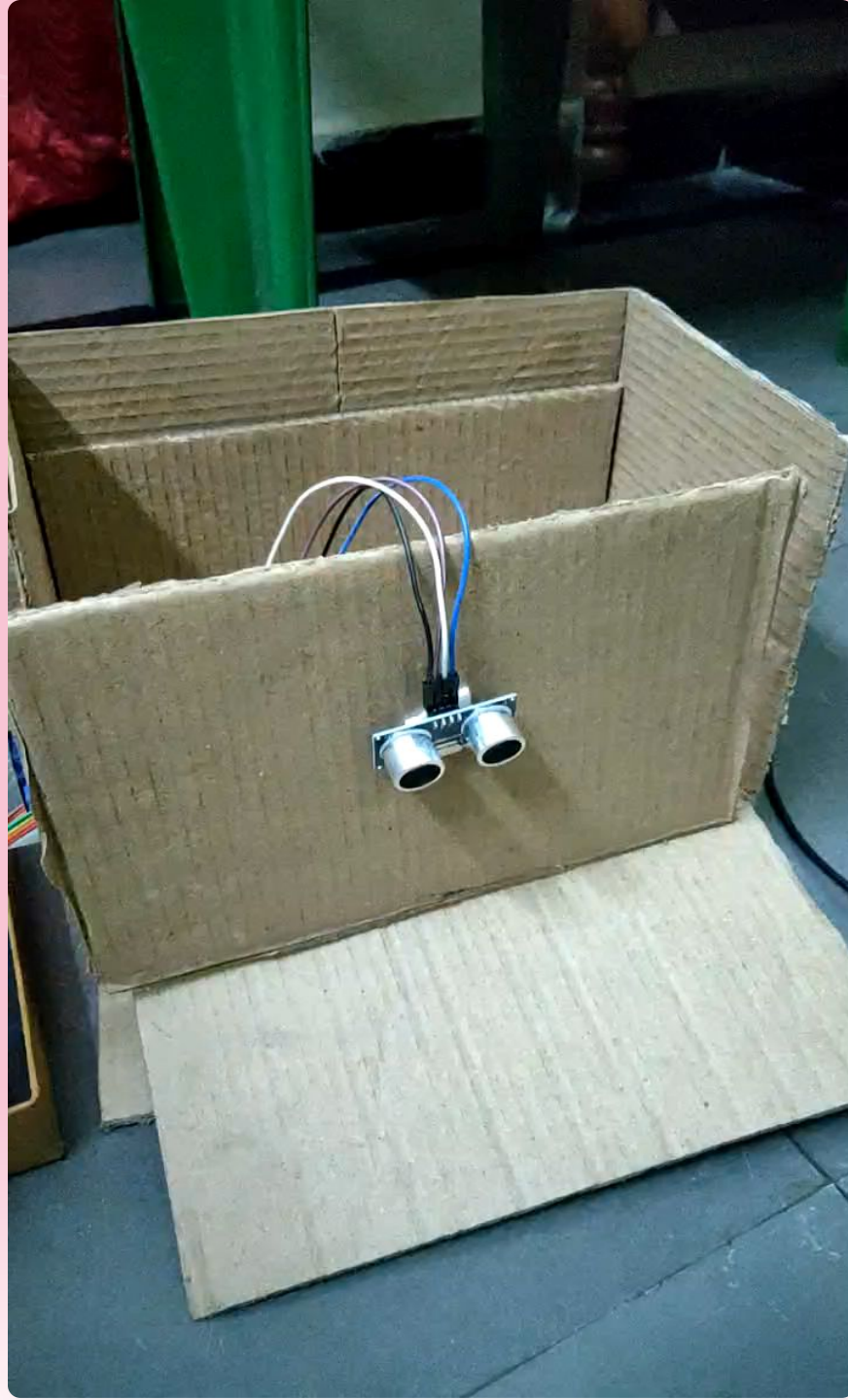
Send ASCII





CAR SHUTTER

- ❑ AN ULTRA SONIC SENSOR IS FIXED ON THE SHUTTER
- ❑ WHEN THE CAR IS ARRIVED, SENSOR READS THE DISTANCE BETWEEN CAR AND SHUTTER
- ❑ BASED ON THE DISTANCE THE SHUTTER WILL BE LIFTED UP accordingly



WATER TANK WITH PUMP MOTOR

- WE HAVE A MANUAL SWITCH BASED PUMP MOTOR
- WATER WILL BE PUMPED INTO THE WATER TANK WHEN THE SWITCH IS ON
- THE LEVEL OF WATER IS INDICATED ON A PANEL WHERE SOME LED'S ARE FIXED
- IF THE TANK IS GETTING FILLED, A NOTIFICATION TYPE BUZZER SOUND IS PRODUCED, SO THAT WE CAN TURN OFF THE SWITCH TO SAVE WATER



CHALLENGES ANTICIPATED

- FACED DIFFICULTY IN COMBINING THE SUB PARTS OF THE PROJECT
- FACED DIFFICULTY IN FIXING THE DOOR LOCK
- FACED DIFICULTY IN CAR DOOR SHUTTER

EXPECTED RESULT IN FINAL VIDEO

- WE WILL HAVE A MANUAL PUMP MOTOR WHERE WE CAN TURN ON OR TURN OFF THE PUMP MOTOR BASED ON THE LEVEL OF WATER IN THE TANK
- WE WILL HAVE A BLUETOOTH BASED DOOR LOCK SYSTEM
- WE WILL HAVE A BLUETOOTH BASED FAN AND LIGHT WHERE SWITCHING ON AND OFF THE LIGHTS AND FANS ARE CONTROLLED THROUGH MOBILE
- WE WILL HAVE A ULTRA SONIC SENSOR BASED CAR SHUTTER, WHERE ULTRASONIC SENSOR SENSES THE DISTANCE BETWEEN THE CAR AND SHUTTER, BASED ON THE DISTANCE CAR SHUTTER WILL BE LIFTED



THANK YOU