Sinhgad Technical Education Society's
SINHGAD COLLEGE OF ENGINEERING, PUNE-41
Electronics & Telecommunication Engineering Department

Batch-C3, Group No 1.

SPEAKING SYSTEM FOR MUTE PEOPLE

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INTRODUCTION

Speech disorders or speech impairments are a type of communication disorder in which normal speech is disrupted. This can mean stuttering, lisps, etc. Someone who is unable to speak due to a speech disorder is considered mute It may not be a permanent condition, depending on the cause, which might be physical, medical, organic, psychological, developmental, neurological or traumatic.
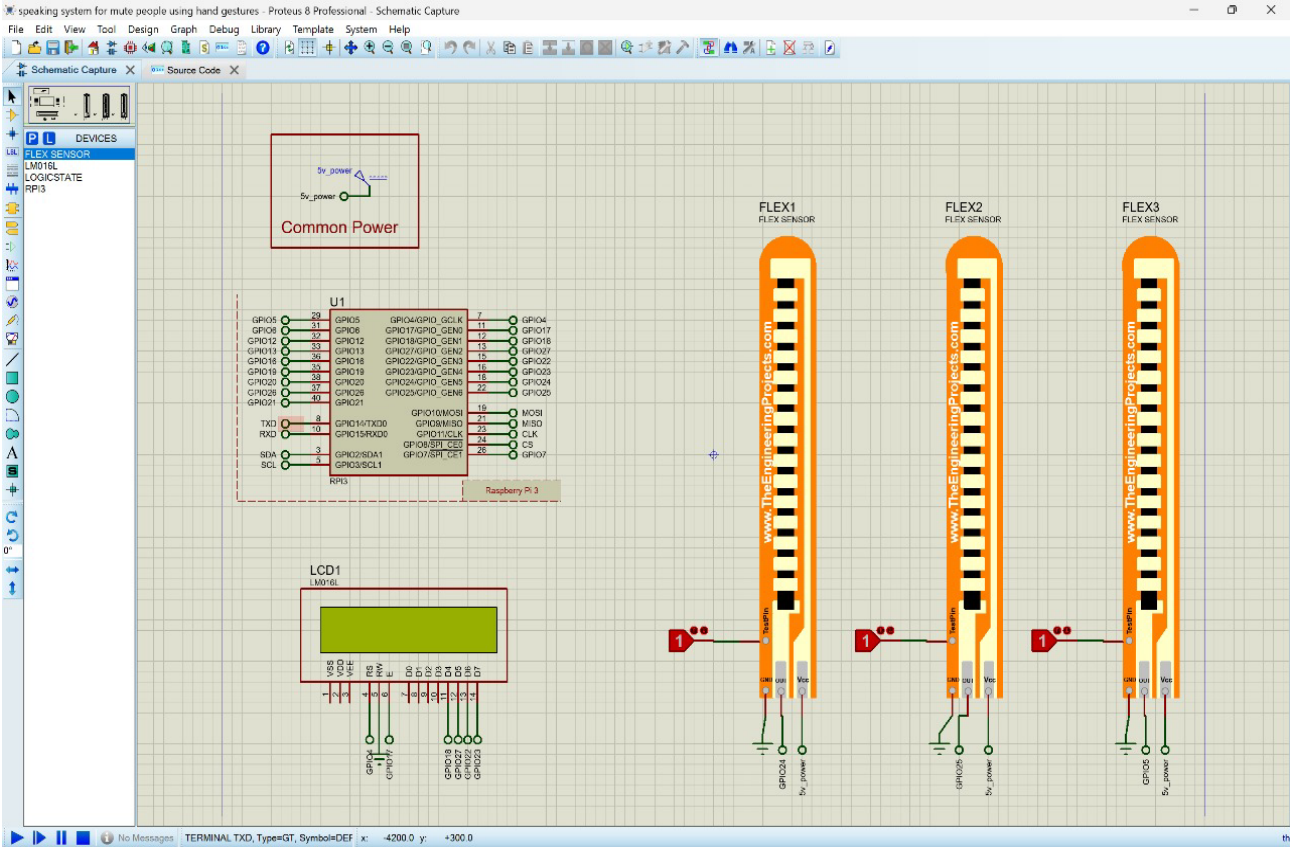
AIM & OBJECTIVES:

1. To study working principle of speaking system.
2. To design and construct SPEAKING SYSTEM using the raspberry pi pico .
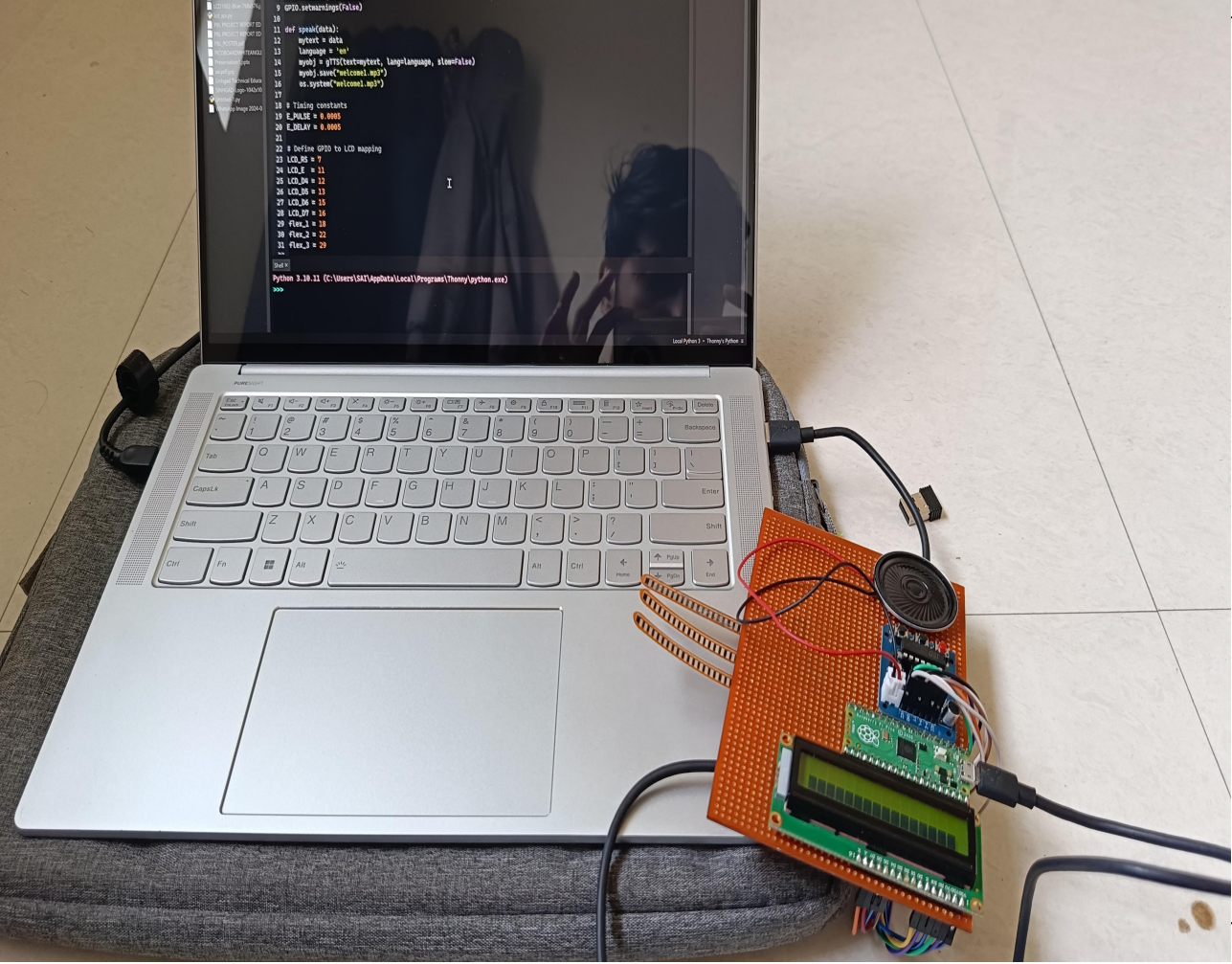3. To implement speaking system in project.

BLOCK DIAGRAM:
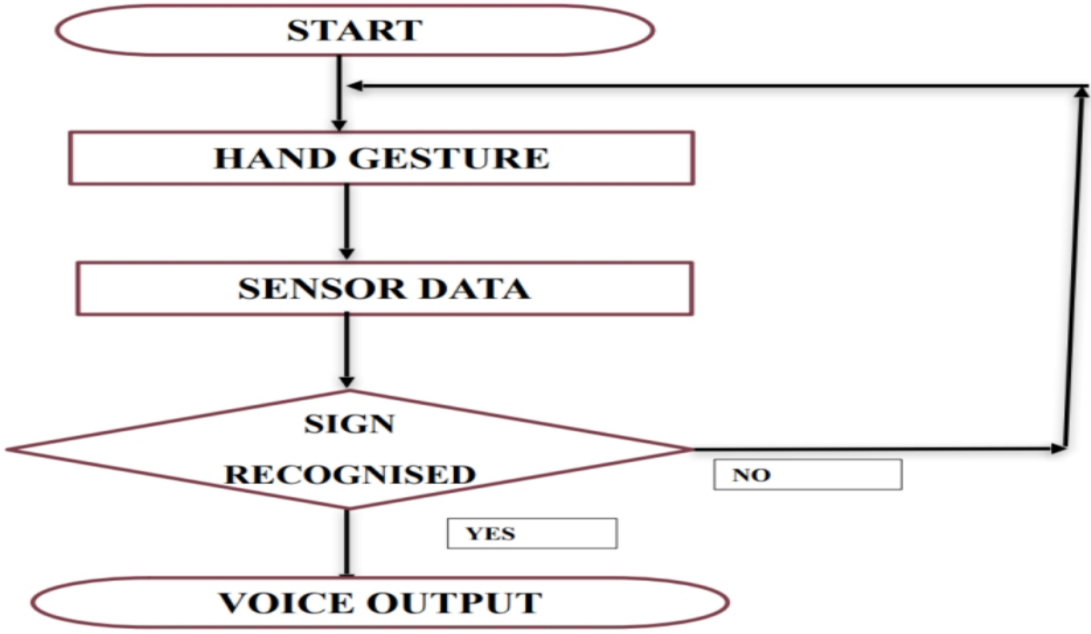
CIRCUIT DIAGRAM:

RESULT:

ADVANTAGES:

- Low cost
- Compact systems
- Flexible to users
- It takes less power to operate system

APPLICATIONS:

- Gesture recognition and conversion.
- As a translating device for Mute people.
- It can be used for Mobiles for SMS sending.
- Translation of sign language in many regional languages.

CONCLUSION:

One of the standard sign language techniques is the use of hand gestures. The ability of mute people to communicate with others is highly limited. This project aims to facilitate the diagnosis process of the mute patients via using hand gesture recognition system that housed in a right-hand glove and contain five flex sensors for each finger, the system is designed to recognize eleven Arabic sign language letters that represent different phrases, converted to audio to help the doctor to make the right diagnosis, The system will compare the identified signal with stored data when it's matched an mp3 audio file will be played as an output