# Check if Raspberry Pi Understands the Verbal Commands

# Summary

## Location & Date

TBD

## Description & Aim

To check how successfully Raspberry Pi understands the verbal commands recorded via a USB microphone.

## Participants

TBD

# Preconditions & Environment Requirements

* USB microphone
* Raspberry Pi 4 (4GB) (running speech recognition software)
* Pre-recorded verbal commands (by different people if possible)
* A device capable of playing sound (e.g., mobile phone)
* Distance measurement tool (e.g., a ruler)

# Scenario

|  |  |  |  |
| --- | --- | --- | --- |
| **Step** | **Data** | **Expected Result** | **Actual Result** |
| Run Raspberry Pi | - | - | - |
| Connect USB microphone | - | - | - |
| Play a verbal command record and check whether Raspberry Pi understands | 10 times  40 centimeters, distance between speaker and microphone | At least 9 times Raspberry Pi understood the command | - |
| Repeat the previous step | 10 times  70 centimeters, distance between speaker and microphone | At least 7 times Raspberry Pi understood the command | - |
| Repeat the previous step | 10 times  110 centimeters, distance between speaker and microphone | At least 5 times Raspberry Pi understood the command | - |
| Repeat the previous three steps for different pre-recorded verbal commands | - | - | - |