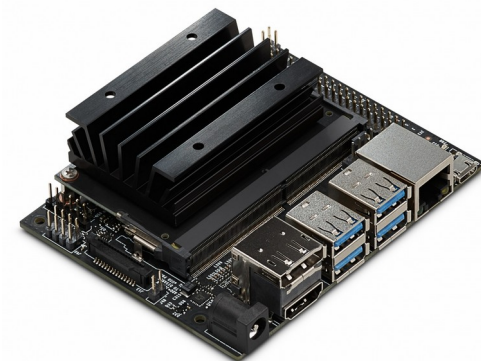


MÁY TÍNH NHÚNG ỨNG DỤNG

Đỗ Thanh Nghị

Khoa CNTT-TT, ĐH. Cần Thơ
dtngnhi@cit.ctu.edu.vn



Cần Thơ, 2021

Nội dung

- Giới thiệu
- Ứng dụng

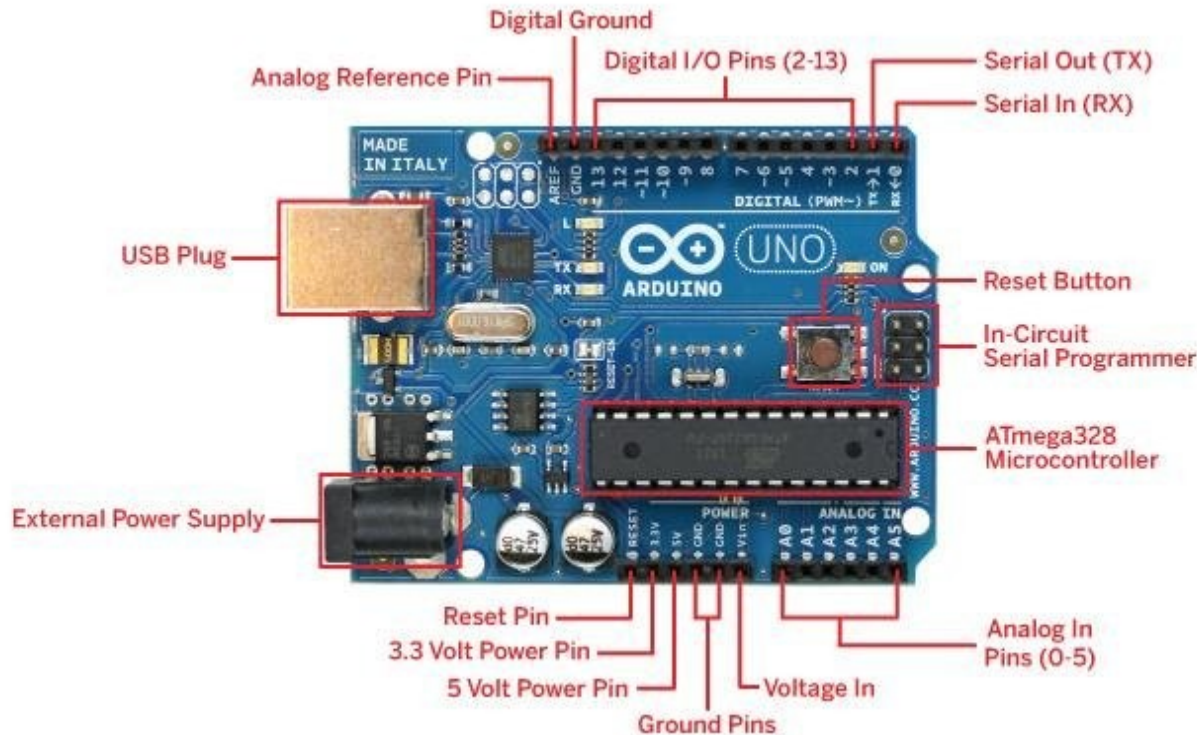
Nội dung

- Giới thiệu
- Ứng dụng

Giới thiệu

■ Máy tính Arduino

- Giới thiệu
- Ứng dụng



Giới thiệu

- Giới thiệu
- Ứng dụng

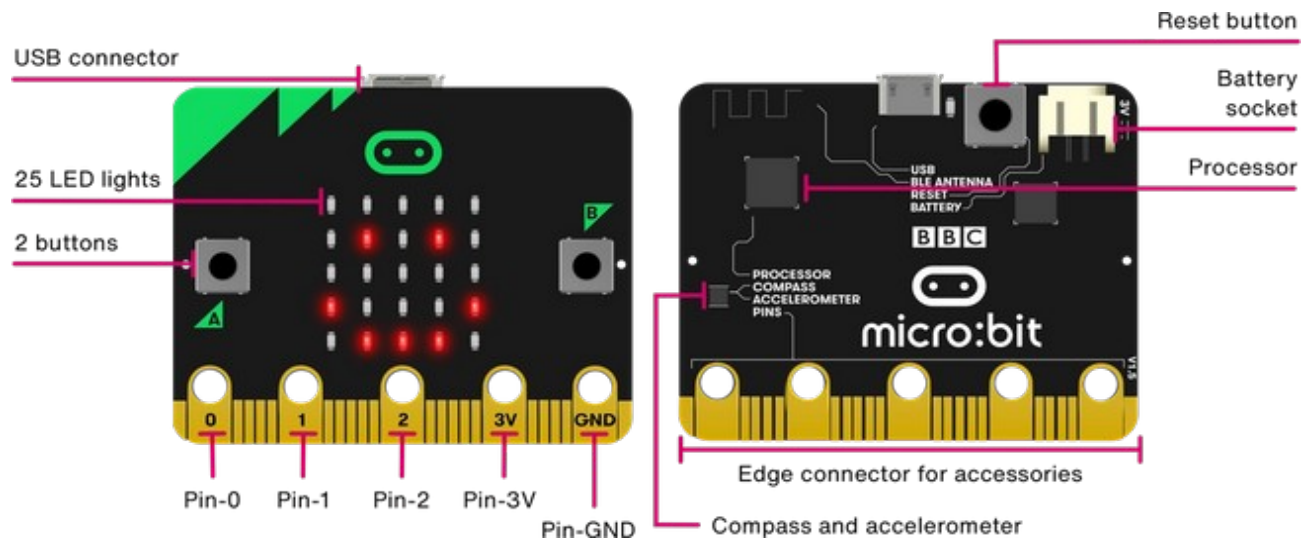
■ Máy tính Raspberry Pi



Giới thiệu

- Giới thiệu
- Ứng dụng

■ Máy tính Microbit:BBC



Giới thiệu

- Giới thiệu
- Ứng dụng

■ Máy tính Jetson Nano



Giới thiệu

- Giới thiệu
- Ứng dụng

■ Máy tính nhúng



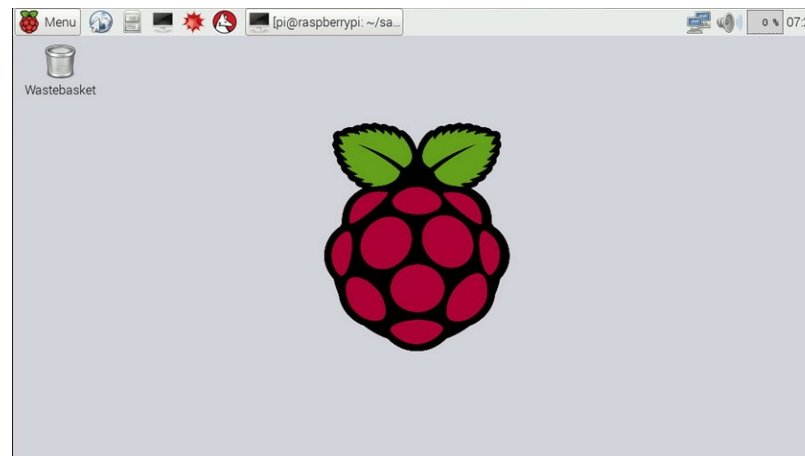
TEACH



LEARN



MAKE



Giới thiệu

■ Máy tính nhúng

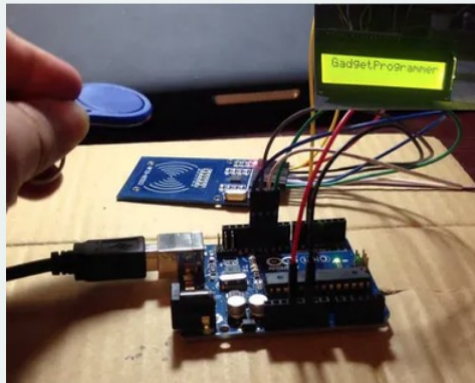
- Giới thiệu
- Ứng dụng



Touchless Automatic Motion Sensor Trash Can

Project showcase by Will Su

67,078 VIEWS 43 COMMENTS 116 RESPECTS



Version 2.0 Advanced Attendance System (Without...

Project tutorial by Team GadgetProgram...

35,933 VIEWS 48 COMMENTS 99 RESPECTS



Blinds (Or Any AC Power Motor) Control

Project tutorial by gomecin

39,419 VIEWS 47 COMMENTS 114 RESPECTS



Herb Box Eco System

Project tutorial by Walter Heger



Arduino, Monitoring Door-Opening via Gmail



Vertical Hydroponic Farm

Project in progress by Paul Langdon

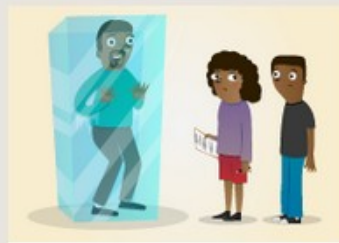
Giới thiệu

- Giới thiệu
- Ứng dụng

■ Máy tính nhúng



HAMSTER PARTY CAM



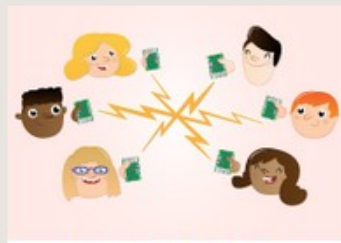
TEMPERATURE LOG



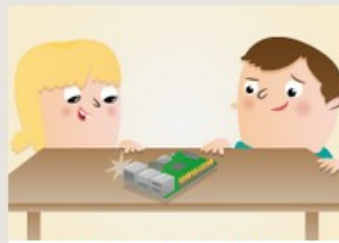
MORSE CODE VIRTUAL RADIO



GETTING STARTED WITH SONIC PI



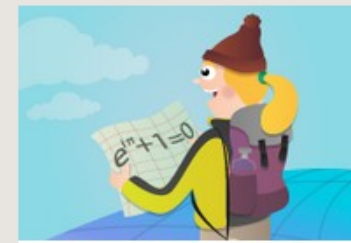
NETWORKING LESSONS



GETTING STARTED WITH
RASPBERRY PI LESSON



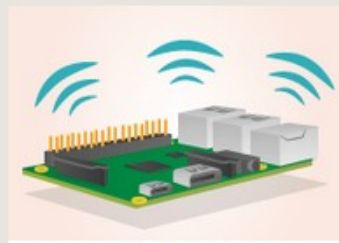
GETTING STARTED WITH SCRATCH



GETTING STARTED WITH
MATHEMATICA



PUSH BUTTON STOP MOTION



BUILD A LAMP WEB SERVER WITH
WORDPRESS



TURING TEST LESSONS



TIME-LAPSE SETUP

Giới thiệu

■ Máy tính nhúng

■ Giới thiệu

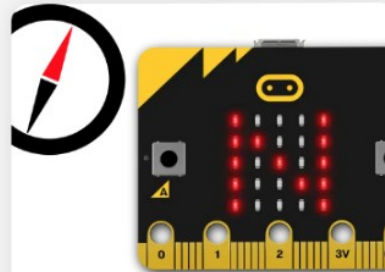
■ Ứng dụng



Sensitive step counter

Make a more accurate step-counter

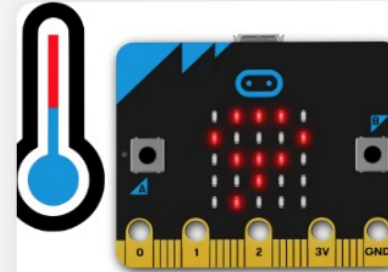
■ ■ ■ Intermediate



Compass North

Create a simple compass to show whic...

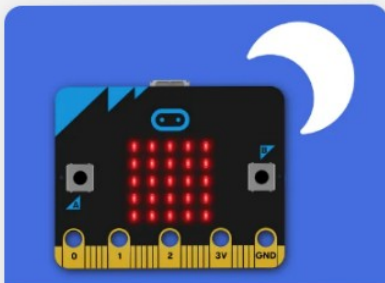
■ ■ ■ Intermediate



Max-min thermometer

Track high and low temperatures with you...

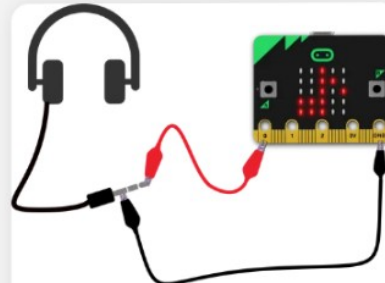
■ ■ ■ Intermediate



Nightlight

Create a light that turns on when it's dark

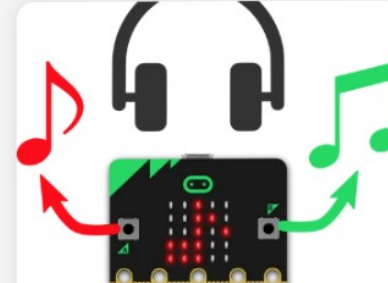
■ ■ ■ Intermediate



Make some noise

Connect headphones or speakers to make noise

■ ■ ■ Intermediate



Jukebox

Use buttons to play different tunes

■ ■ ■ Intermediate

Nội dung

- Giới thiệu
- Ứng dụng

Ứng dụng

- Giới thiệu
- Ứng dụng

■ Internet of Things (IoT)



Ứng dụng

- Giới thiệu
- Ứng dụng

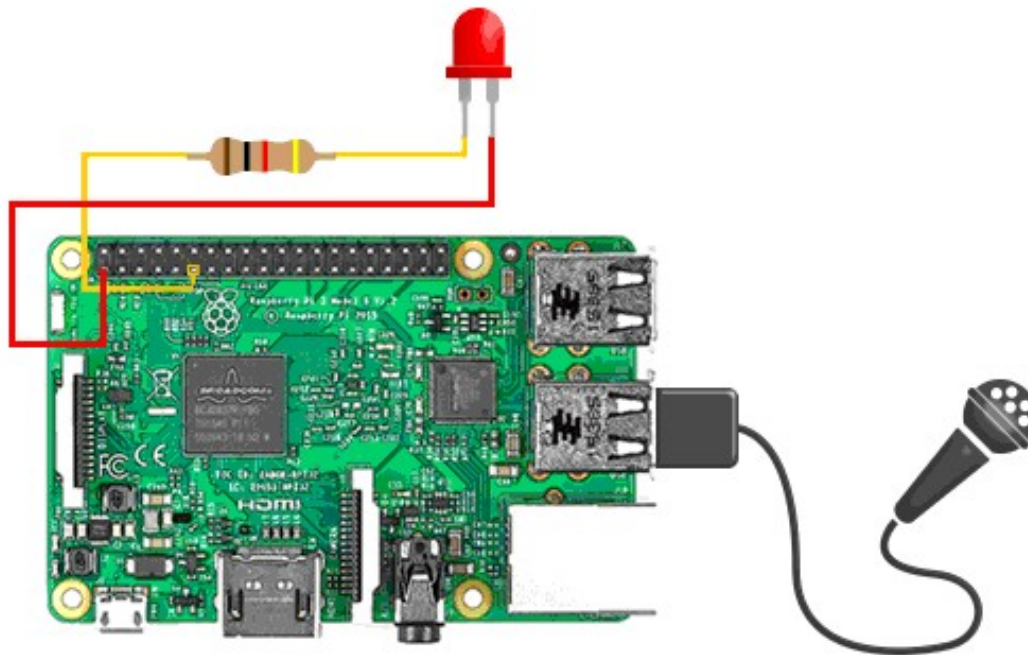
■ Ngôi nhà thông minh



Ứng dụng

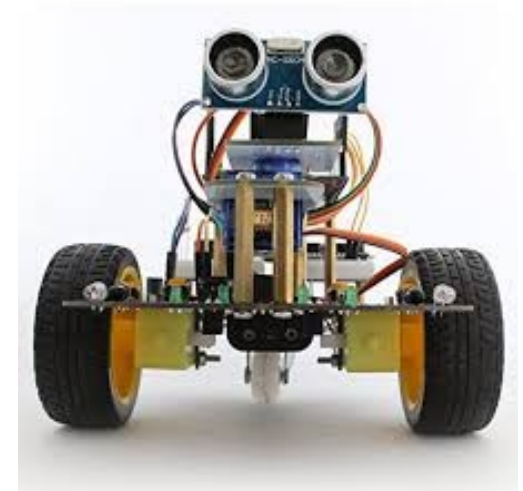
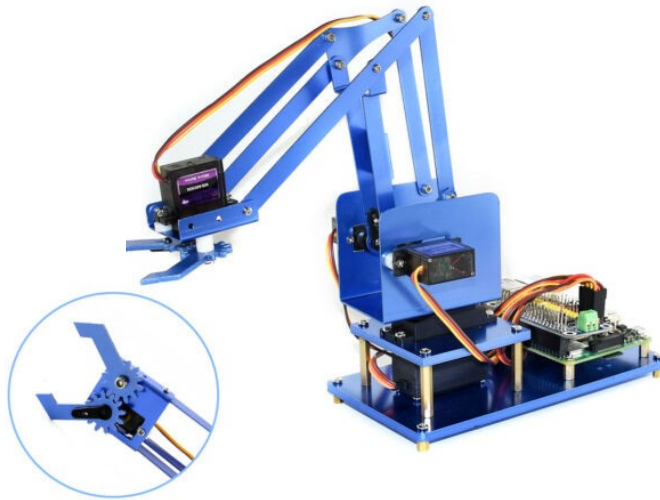
- Điều khiển bằng giọng nói

- Giới thiệu
- Ứng dụng



Ứng dụng

■ Điều khiển Robot



- Giới thiệu
- Ứng dụng

Ứng dụng

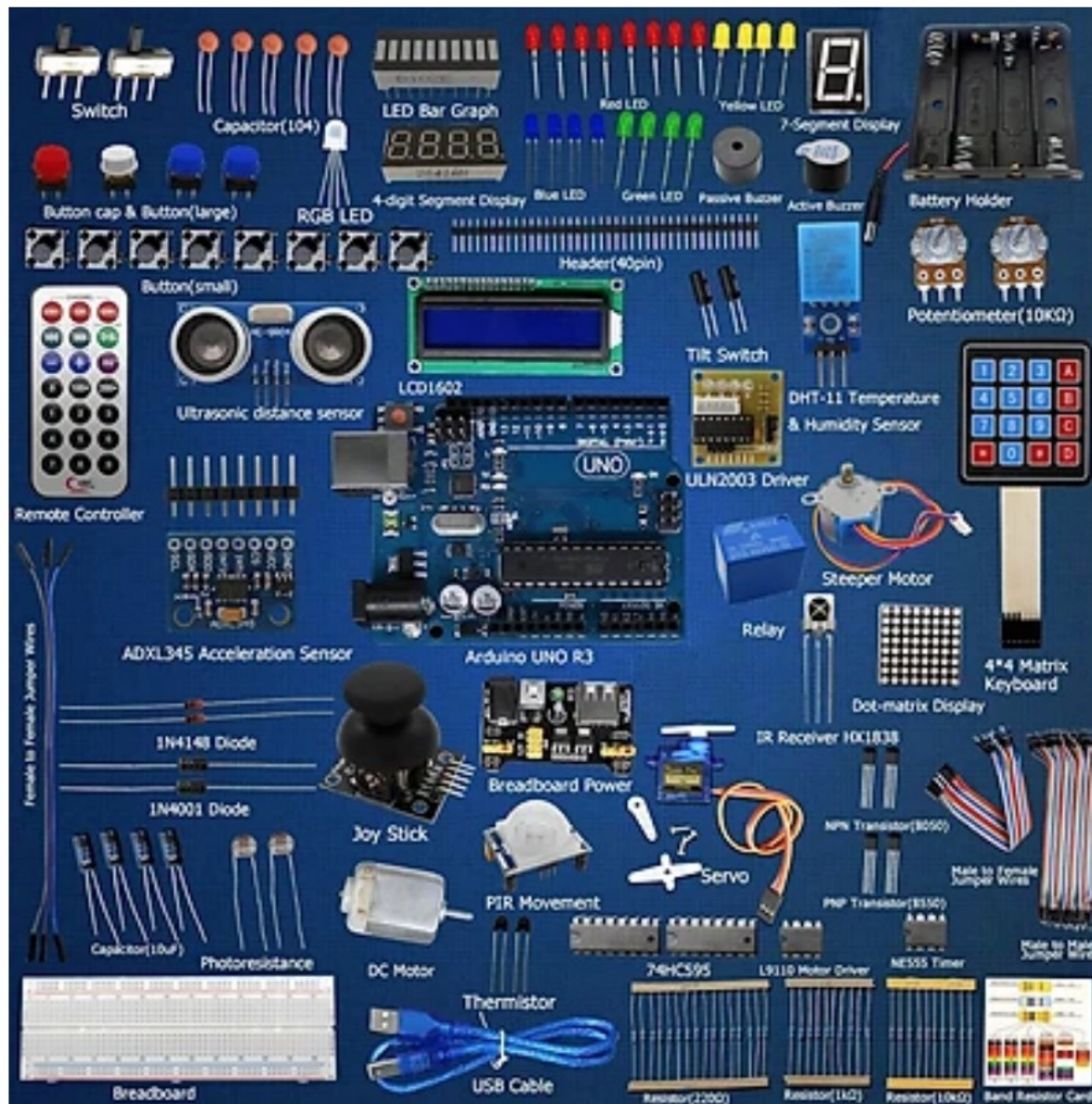
■ Xe tự lái

- Giới thiệu
- Ứng dụng



Hãy tự khám phá...

- Giới thiệu
- Ứng dụng



- Giới thiệu
- Ứng dụng



Hãy tự khám phá...

- Giới thiệu
- Ứng dụng

The image displays the Microsoft MakeCode IDE interface, which is used for programming micro:bit devices. The interface is split into several sections:

- Top Left:** An Arduino IDE window titled "sketch0401 | Arduino 1.0.5". It shows a C++ sketch with the following code:

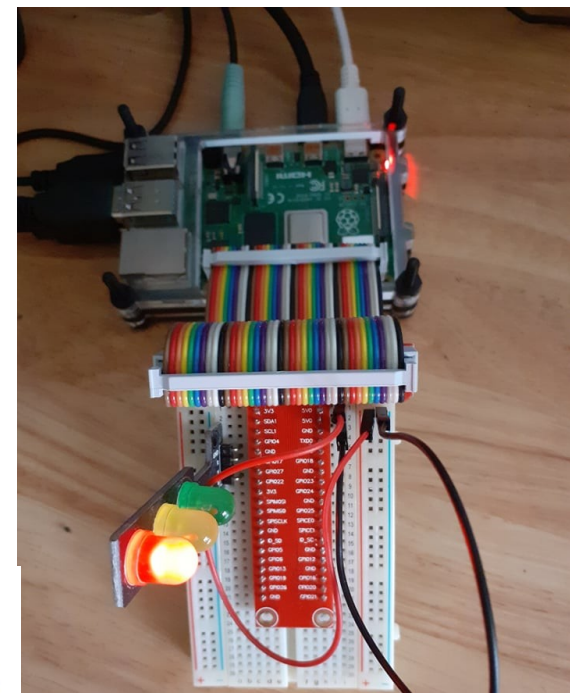
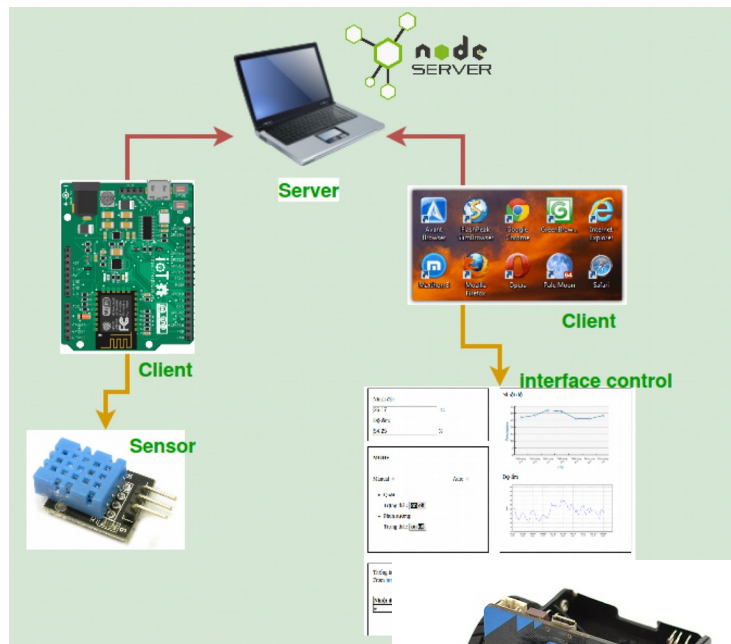
```
int counter = 0;
int pin = 13;
```
- Top Right:** A Python editor window titled "temp.py x LCD1602.py x". It contains the following code:

```
1 #!/usr/bin/env python
2 #
3 # Note:
4 # ds18b20's data pin must be connected to pin7.
5 # replace the 28-XXXXXXXX as yours.
6 #
7 import os
8 import LCD1602
9 import time
```
- Bottom Left:** A visual representation of a micro:bit board with its pins and components.
- Bottom Center:** A sidebar with a search bar and a list of block categories: Basic, Input, Music, Led, Radio, MaqueenIR, Loops, Logic, Variables, Math, and Maqueen.
- Bottom Right:** A block-based programming area showing a "forever" loop. The code inside the loop is as follows:

```
if (read ultrasonic sensor cm < 10 and read ultrasonic sensor cm > 10) then
  motor all stop
  LEDlight left turn ON
  LEDlight right turn ON
  pause (ms) 100
else
  LEDlight left turn OFF
  LEDlight right turn OFF
  set L to read left line tracking sensor
  set R to read right line tracking sensor
  if (L = 0 and R = 0) then
    show icon [happy face]
    motor all [forward]
```


Hãy tự khám phá...

- Giới thiệu
- Ứng dụng



14:05:05

Tuesday, November 19 2019

Good afternoon!

UPCOMING EVENTS

Nov 20 - Nov 21
Fendon: Release
Nov 21, 07:00 - 09:00, Nov 21:
Specialized-Topic Project Presentation
Nov 22, 09:00 - 18:30, Nov 22:
Fendon: Test coverage Merkle Tree
Nov 22, 13:00 - 16:30, Nov 22:
E-commerce CMS Presentation
Nov 23, 13:30 - 22:00, Nov 23:
Windows NM Report Submit Deadline
Nov 24, 13:00 - 17:00, Nov 24:
Windows NM: Final Exam
Nov 28, 09:00 - 23:30, Nov 28:
InfoSec: Group Project Deadline
Dec 02, 06:00 - 19:00, Dec 02:
Olympic - ICPC Danang 2019



GOOGLENEWS

Bella Hadid Makes Peace with Selena Gomez After IG Deletion - T
NFL Power Rankings: Ravens have a fantastic QB, and a defense to match -
Triple Take: Was Ben Askren's UFC tenure a success or failure? - MM/

32°
Mostly Cloudy
Humid and overcast throughout the day.
WEATHER FORECAST HO CHI MINH
TUE 83.0% 23.63° 33.22°
WED 86.0% 20.2° 31.78°
THU 87.0% 20.82° 32.82°

