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# Top IoT Sensors

What are the types of sensors?

Answer: Digital and Analog

What is an example of digital sensor?

Answer: Image

What are the different examples of different sensors?

Answer: Optical, accelerometer, temperature, image, gas, humidity, level, etc.

 How many types of sensors?

Answer: 2 types (Analogue and Digital)

Which sensor is both types (analogue, digital)?

Answer: Temperature

Which one is an example of different one sensor?

Answer: Image (Digital sensor)

How many total only Analogue sensor which are given: Temperature, Gyroscope, Level, Gas, Pressure, Image, Proximity

Answer: 3

What are the examples of analog sensors?

Answer: Light sensors (LDRs), sound sensors, pressure sensors, and analog temperature sensors.

Which sensor is use to detect an object without touching it

Answer: Proximity

Which one is angular rate sensor or angular velocity sensor?

Answer: Gyroscope

Which sensor is convert incoming light into an electrical signal that can be viewed?

Answer: Image

Which sensor is use to detect and identify different types of gasses.

Answer: Gas

Which sensor monitor, maintain and measure liquid levels?

Answer: Level

# Amazon Alexa

Which sensor is used use to take input in Alexa smart speaker?

Answer: Microphone

Which IoT hardware is use in the Alexa hardware?

Answer: ESP Series Wi-Fi Module

Which cloud storage Alexa used?

Answer: AWS

Which App you required to access Alexa?

Answer: Alexa app

Smart Switches

What is smart switch used for?

Answer: Transfer data among tablets, smartphones, and PC

What does smart switches use?

Answer: Wi-Fi and USB

Do smart switches works without internet?

Answer: May

What hardware is generally used in the smart switches?

Answer: esp-8266-01 Wi-Fi-module

What is the best way to do when smart switch doesn't work?

Answer: Reinstalling the app

Do smart switches uses electricity while they are off?

Answer: Less

What does smart switch do?

Answer: Transfer data

Where are smart locks used?

Answer: Home security

# Doorbell cam

Which sensor is used to take input in Doorbell cam?

Which IoT hardware can we use in doorbell cam?

Which communication medium is used in doorbell cam?

Which cloud storage is used in doorbell cam?

Which app / device is used as dashboard for doorbell cam?

# Kuri Mobile Robot

What is ‘Kuri Mobile Robot’?

Answer: A home robot that interact with human and capture the pictures.

How does create ‘Kuri Mobile Robot’?

Answer: From brimming technologies.

What sensors does Kuri robot have?

Answer: Capacitive touch sensors.

When did create to Kuri Mobile Robot?

Answer: In 2017 by Mayfield Robotics

What are more activities of Kuri Mobile Robot’?

Answer: It can do multimedia activity (like audio, video etc.)

Can Kuri Mobile Robot’ detect the voice?

Answer: Yes it can detect the voice and remind.

How does work Kuri Mobile Robot’?

Answer: It has capacitance touch sensors that helps to respond on human touch.

How much does Kuri robot cost?

Answer: Kuri will cost a hefty $700.

# Communication Protocol

What kind of communication provides SPI?

Answer: Full-duplex

In how many ways UART can be operated between devices?

Answer: 3

How many logic signals are there in the SPI protocol?

Answer: Five signals

What does MOSI mean?

Answer: MOSI is a data line that sends the data from master to slave.

Which of the following is the type of SPI controller?

Answer: Queued SPI

What is the full form of HDLC?

Answer: High-level Data Link Control

What does MOSI mean?

Answer: MOSI is a data line that sends the data from master to slave.

Telecommunication is an example of

Answer: USART

I2C protocol is not used with

Answer: PC device

UART data transmission speed is referred as

Answer: BAUD rate

Which protocol is slower?

Answer: I2C

Where one will not be able to operate SPI?

Answer: 5Mbits

13. Which interface does the fingerprint sensor use?

Answer: UART interface

What is another name for I2C?

Answer: Two Wire Interface

Which of the following protocols is used by USART?

Answer: RS232C

# Easy Temperature Controller

***Question Answer***



**Question 1. What is temperature controller?**

Answer: A device that is used to control a heater or other equipment by comparing a sensor signal.

**Question 2. Which sensor is used in temperature controller?**

Answer: **Thermistor** is used in temperature control system.

**Question 3. How does work temperature sensor?**

Answer: It measures the temperature of a location where the temperature control is required. It converts the temperature to a physical quantity of a voltage or resistance and outputs that.

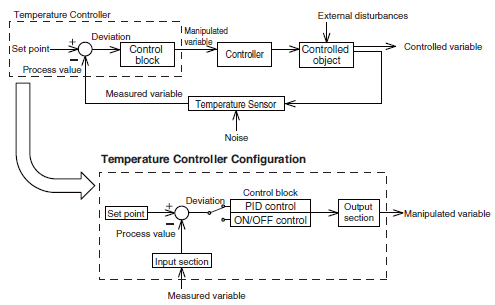


Figure 1: Temperature Controller

**Question 4. What power supply is available to power the controller?**

Answer: 12-24 VDC or 100-240 VAC.

**Question 5. What size controller is required?**

Answer: There are the following size required of controller;

* 1/4,
* 1/8,
* 1/16,
* 1/32 etc.

**Question 6. What is the most basic control of temperature?**

Answer: There are five most basic control of temperature;

* Latitude.
* Land-water Contrasts.
* Ocean Currents.
* Wind patterns.
* Altitude

**Question 7. What are the different types of temperature control system?**

Answer: There are three general kinds of temperature control system;

* On-off,
* Proportional, and
* PID controls. (PID stands for Proportional, Integral, Derivative)

**Question 8. What is PID Temperature Controller?**

**Answer**: A Temperature Sensor measures the temperature of a location where the temperature control is required.

**Question 9. What is the most basic control of temperature?**

Answer: There are five most basic control of temperature;

* Latitude.
* Land-water Contrasts.
* Ocean Currents.
* Wind patterns.
* Altitude

**Question 10. How much does a temperature controller cost?**

Answer: Around RS 3,500 cost of VT4826 PID Temperature Controller.

Industrial Revolution

Q.1.What was the first industrial revolution?

Ans: - Fire

Q.2.When steel was first made?

Ans: - 4000 years ago

Q.3.When was bronze first invented?

Ans: - 5000 BC

Q.4.What was the first industrial revolution period?

Ans: - 1760-1820

Q.5.What was the second industrial revolution period?

Ans: - 1863-1947

Q.6.When did the third industrial revolution start?

Ans: - 1950

Q.7.Third industrial revolution is also known as ………

Ans: - Digital Revolution

Q.8.Who was the first inventor of power loom in UK?

Ans: - Edmund Cartwright

Q.9.Who modified power loom in US?

Ans: - Francis Cabot Lowell

Q.10.Who was the father of scientific management?

Ans: - Frederick Winslow Taylor