Introduction to IOT

Spoken Tutorial Project
https://spoken-tutorial.org
National Mission on Education through ICT
http://sakshat.ac.in

Pratik Bhosale
IIT Bombay

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Learning Objectives

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- **IoT (Internet of Things)**

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- **Working of IoT**

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- **ThingSpeak platform**

Pre-requisites

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- **Arduino**

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- **DHT11 Sensor**

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If not, then go through the Arduino spoken tutorials on
https://spoken-tutorial.org

System Requirements

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- **Ubuntu Linux 16.04 OS**

IoT

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- **IoT is a network of physical devices with sensors and embedded software**
- **These devices connect to the internet and exchange data**

IoT-Example: Smart Home

- **It allows you to control devices connected to the internet from home or anywhere**

IoT-Example: Smart Supply Chain

IoT-Example: Activity Tracker

Working of IoT

About ThingSpeak

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- **ThingSpeak platform is free and open to all users**
- **It allows you to control and monitor your IoT devices**
- **It creates an IoT dashboard for data analyzation and visualization**

About Next Tutorial

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- **Collect temperature and humidity values given by DHT11 sensor**

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- **Store and visualize sensor readings in the ThingSpeak platform**
- **Download the data in CSV file from the ThingSpeak platform**

Summary

- **IoT (Internet of Things)**
- **Working of IoT**
- **ThingSpeak platform**

About the Spoken Tutorial Project

- Watch the video available at https://spoken-tutorial.org/What_is_a_Spoken_Tutorial
- It summarises the Spoken Tutorial project
- If you do not have good bandwidth, you can download and watch it

Spoken Tutorial Workshops

The Spoken Tutorial Project Team

- **Conducts workshops using spoken tutorials**
- **Gives certificates to those who pass an online test**
- **For more details, please write to contact@spoken-tutorial.org**

Forum questions

- **Questions in THIS Spoken Tutorial?**
- **Visit**

  https://forums.spoken-tutorial.org/
- **Choose the minute and second where you have the question**
- **Explain your question briefly**
- **The Spoken Tutorial project will ensure an answer**

You will have to register to ask questions

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