

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

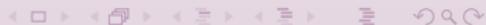


Learning Objectives

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



Pre-requisites



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- **Arduino**



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- **Arduino**
- **DHT11 Sensor**



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- **DHT11 Sensor**
- **ESP8266-01 module**



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- **Arduino**
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If not, then go through the **Arduino** spoken tutorials on

<https://spoken-tutorial.org>



System Requirements

To record this tutorial, I am using



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- **Ubuntu Linux 16.04 OS**





- **IoT is a network of physical devices with sensors and embedded software**



- **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



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- It allows you to control and monitor your IoT devices

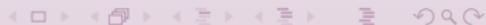


About ThingSpeak

- **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



About Next Tutorial

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



About Next Tutorial

- **Collect temperature and humidity values given by DHT11 sensor**
- **Store and visualize sensor readings in the ThingSpeak platform**



About Next Tutorial

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



Acknowledgements

- **Spoken Tutorial project is funded by MHRD, Govt. of India**

