

# Setup Python Environment for Automation

Spoken Tutorial Project

<https://spoken-tutorial.org>

National Mission on Education through ICT

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# Learning Objectives

**In this tutorial we will learn how to**



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In this tutorial we will learn how to

- **Install Python 3.12.3 in Ubuntu and Windows OS**



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In this tutorial we will learn how to

- Install Python 3.12.3 in Ubuntu and Windows OS
- Create a Virtual environment



# Learning Objectives

In this tutorial we will learn how to

- Install Python 3.12.3 in Ubuntu and Windows OS
- Create a Virtual environment
- Install necessary libraries required for automation



# System Requirements

**To record this tutorial, I am using**



# System Requirements

To record this tutorial, I am using

- **Ubuntu Linux OS version 22.04**



# System Requirements

To record this tutorial, I am using

- Ubuntu Linux OS version 22.04
- Windows 11



# Pre-requisites

To follow this tutorial, you must have basic knowledge of using

- **Linux Terminal**



# Pre-requisites

To follow this tutorial, you must have basic knowledge of using

- Linux Terminal
- Windows command prompt



# Pre-requisites

To follow this tutorial, you must have basic knowledge of using

- Linux Terminal
- Windows command prompt
- Python



# Pre-requisites

- For pre-requisite Linux and Python tutorials, please visit this website <https://spoken-tutorial.org>



# Code files

- The files used in this tutorial are provided in the Code files link



# Code files

- The files used in this tutorial are provided in the Code files link
- Please download and extract the files



# Code files

- The files used in this tutorial are provided in the Code files link
- Please download and extract the files
- Make a copy and then use them while practicing



# Automation

- **Automation is the use of technology to perform tasks with minimal human intervention**



# Automation

- Automation is the use of technology to perform tasks with minimal human intervention
- It automates repetitive tasks to save time and reduce errors



# Automation

- Automation is the use of technology to perform tasks with minimal human intervention
- It automates repetitive tasks to save time and reduce errors
- It provides uniformity in operations and saves time



# Summary

In this tutorial, we have learnt to

- Install Python 3.12.3 in Ubuntu and Windows OS
- Create a Virtual environment
- Install necessary libraries required for automation



# About the Spoken Tutorial Project

- Watch the video available at [http://spoken-tutorial.org/What\\_is\\_a\\_Spoken\\_Tutorial](http://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](mailto:contact@spoken-tutorial.org)



# Answers for THIS spoken tutorial

- 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



# Forum for specific questions

- The Spoken Tutorial forum is for specific questions on this tutorial
- Please do not post unrelated and general questions on them
- This will help reduce the clutter
- With less clutter, we can use these discussions as instructional material



- For any general or technical questions on Python for Automation, visit the FOSSEE forum and post your question <https://forums.fossee.in/>



# Acknowledgement

- The Spoken Tutorial project was established by Ministry of Education, Govt. of India



# Thank you

- **This is Dhaarani Pushpam S, a FOSSEE Semester long intern 2024, IIT Bombay**

