



Shri Yashwantrao Bhonsale Education Society's
YASHWANTRAO BHONSALE INSTITUTE OF TECHNOLOGY

(DTE CODE : 3470) (MSBTE Code : 1742)

Approved by AICTE, DTE & Affiliated to Mumbai University & MSBTE Mumbai
(NBA Accredited ME, CE, EE Diploma Programs)

Practical No 13

Aim

Create an executable file for any program developed in earlier practical time.

Apparatus / Software Required

- Python Interpreter (Python 3.14.2)

Theory

In this practical, we convert a Python program into an executable file so that it can run on any system without installing Python. Normally, Python programs require the Python interpreter to execute `.py` files. However, when we convert the program into an executable file, it becomes a standalone application.

This is achieved using tools like **PyInstaller**, which bundles the Python script along with all required libraries, dependencies, and the Python interpreter into a single `.exe` file.

The executable file can be easily shared and executed on other computers, making it very useful for real-world applications such as:

- Desktop software distribution
- Utility tools
- Simple applications for non-technical users

When we run the PyInstaller command, it creates multiple folders like `build`, `dist`, and a `.spec` file. The final executable file is generated inside the `dist` folder.

1. Python Program Execution

Understanding how `.py` files are written and executed.

2. Command Line Interface (CLI)

Basic knowledge of using command prompt/terminal to run commands.

3. PIP (Python Package Manager)

Used to install external libraries.

Example:

