



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 15**

### **Aim**

Demonstrate the use of a Python debugger (e.g., pdb or an IDE with debugging capabilities) on a sample program with intentional errors. Guide students on setting breakpoints, stepping through code, and examining variable values.

### **Apparatus / Software Required**

- Python Interpreter (Python 3.14.2)

### **Theory**

#### **What is Debugging?**

Debugging is the process of identifying and fixing errors in a program. It helps in understanding how the program executes step-by-step.

- ◆ Debugging in IDLE

IDLE (Python's Integrated Development Environment) provides a simple debugger with features like:

- Breakpoints
- Step-by-step execution
- Variable inspection

- ◆ Key Features in IDLE Debugger

1. Breakpoints
  - Set by right-clicking on a line → *Set Breakpoint*
  - Marks the line where execution will pause
2. Debugger Window
  - Shows current line execution
  - Displays variables and their values







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**Conclusion**

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