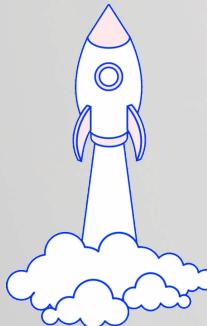
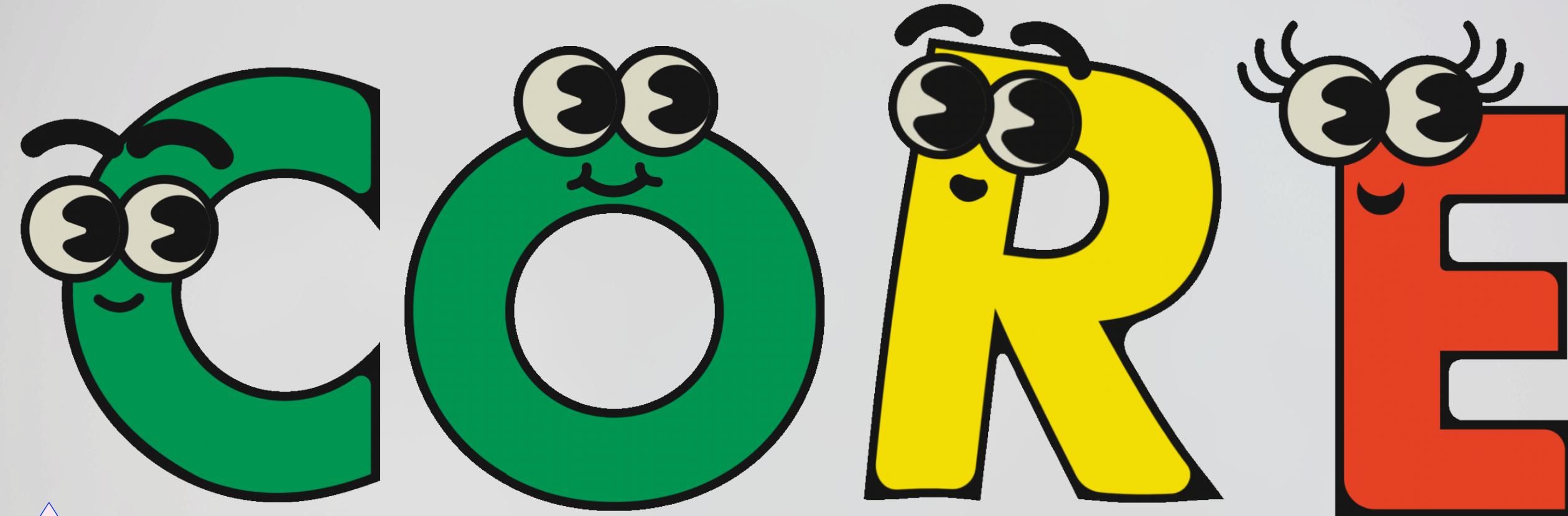




python™ 3



# Basic Python 3

With

Md Mohaiminul Islam Imran

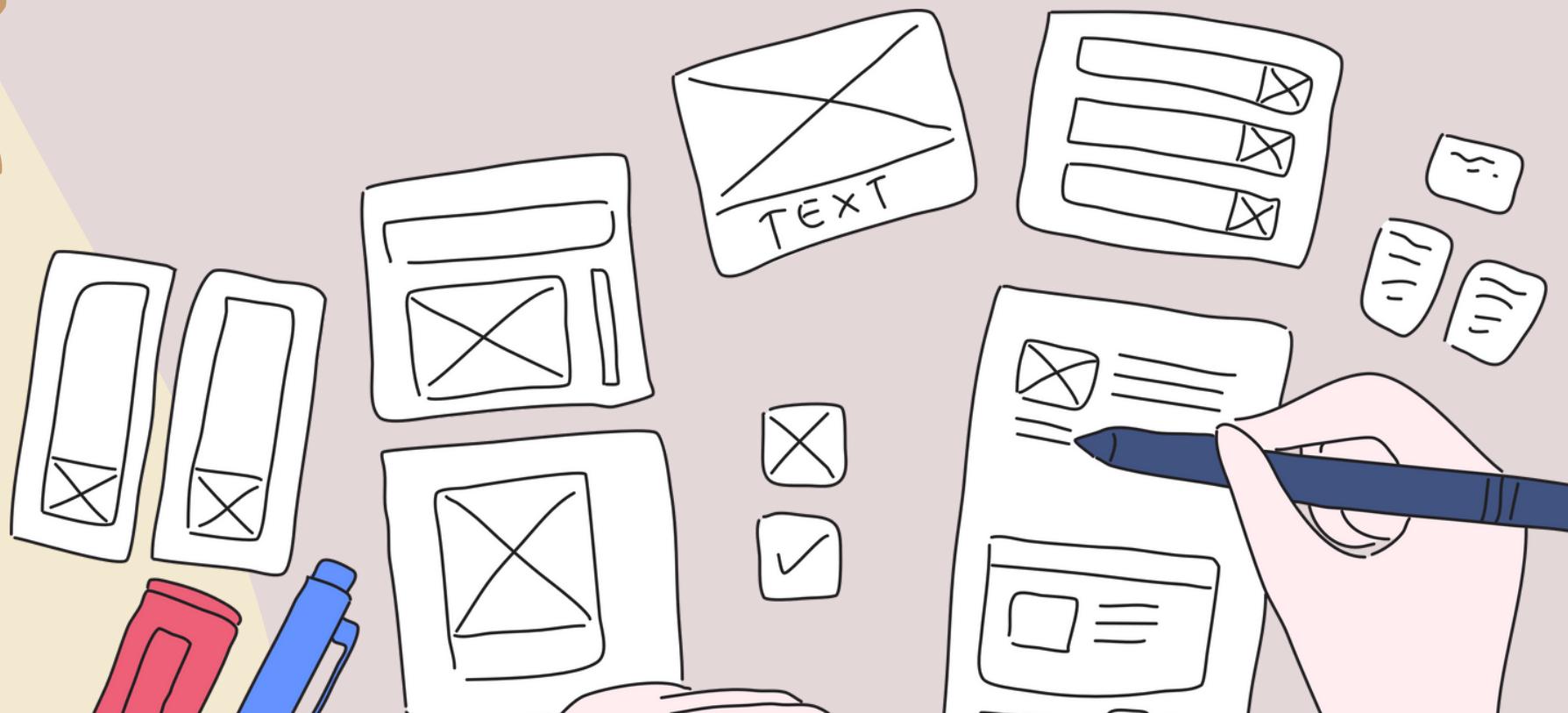
email: [emukhan568@gmail.com](mailto:emukhan568@gmail.com)



FEATURESS

# FEATURES

- Easy to Learn
- High Level Language
- Interpreted Language
- Platform Independent
- Procedure and Object Oriented
- Huge Library
- Scalable



- Web Application – Django, Pyramid, Flask, Bottle
- Desktop GUI Application – Tkinter
  - Console Based Application
  - Games and 3D Application
  - Mobile Application
- Scientific and Numeric
  - Data Science
- Machine Learning – scikit-learn and TensorFlow
- Data Analysis – Matplotlib, Seaborn
- Business Application

# APPLICATION FOR PYTHON



Python 3

# HOW PYTHON WORKS



## HOW PYTHON WORKS

Byte Code – Byte Code represents the fixed set of instruction created by Python developers representing all type of operations like arithmetic operations, comparison operation, memory related operation etc.

The size of each byte code instruction is 1 byte or 8 bits.

We can find byte code instruction in the .pyc file



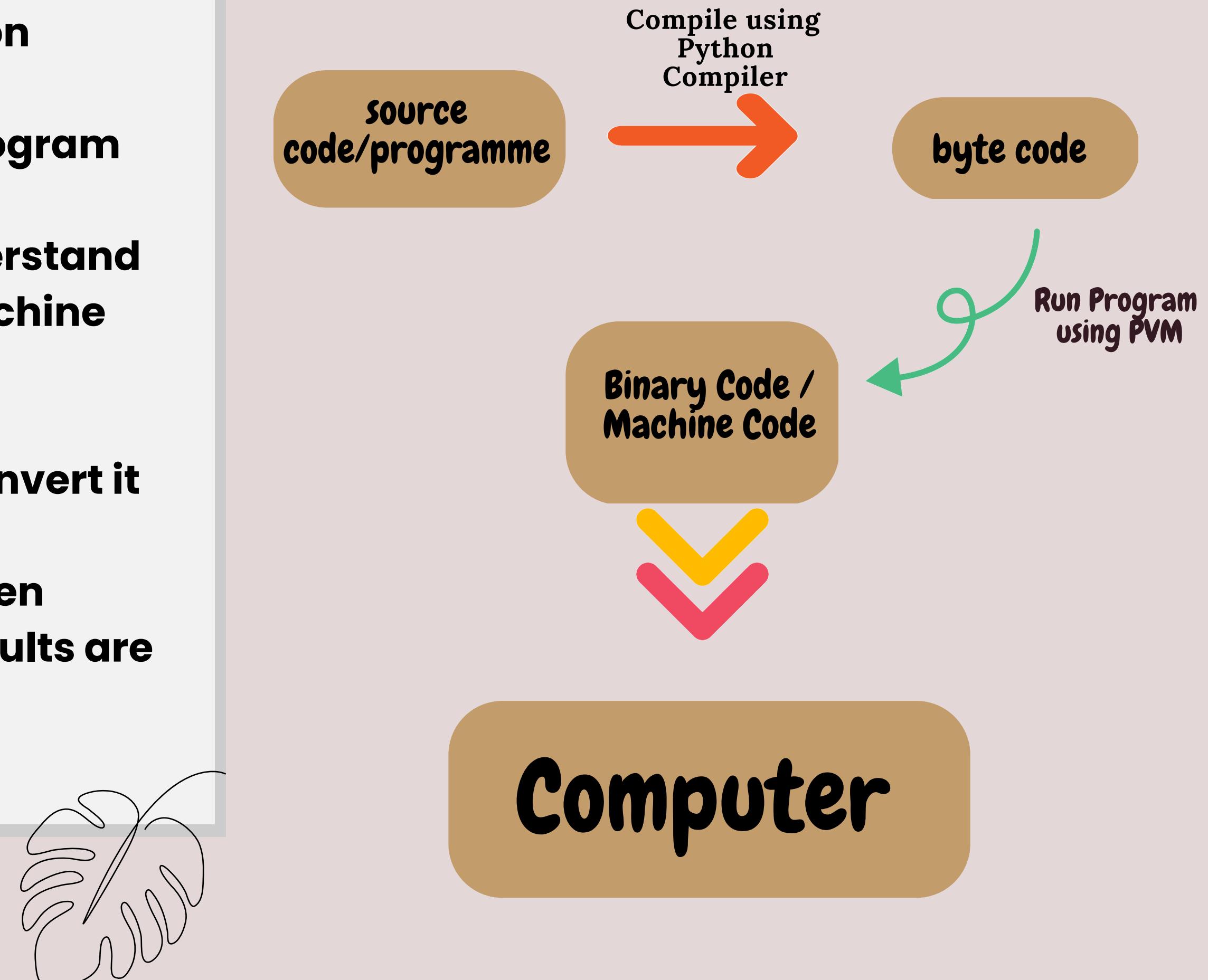
**Python Compiler – A Python Compiler converts the program source code into byte code.**

**Type of Python Compilers :-**

- **CPython**
- **Jpython/ Jython**
- **PyPy**
- **RubyPython**
- **IronPython**
- **StacklessPython**
- **Pythonxy**
- **AnacondaPython**

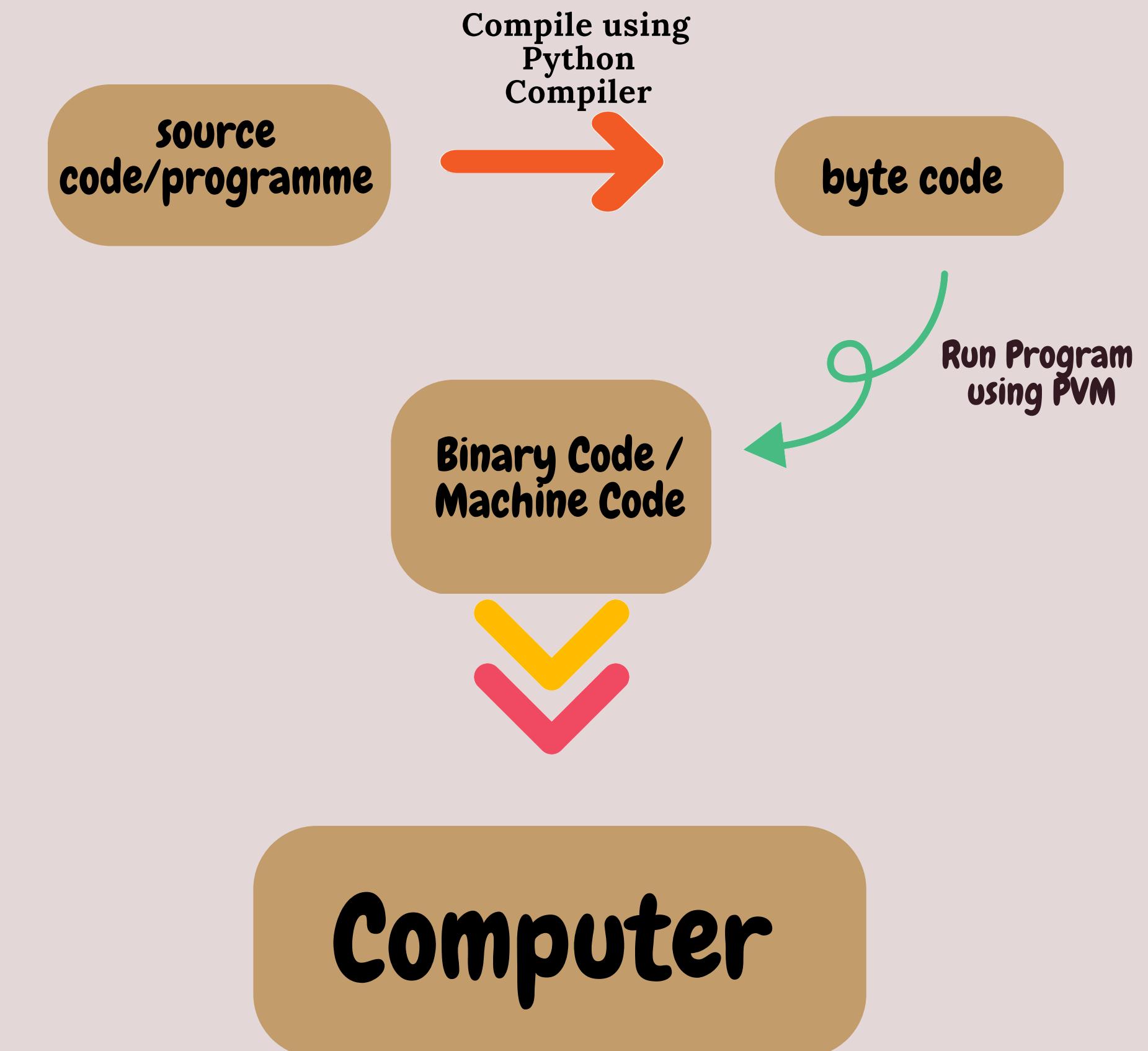


- Write Source Code / Program
- Compile the Program using Python Compiler
- Compiler Converts the Python Program into byte Code
- Computer/Machine Can not understand Byte Code so we convert it into Machine Code using PVM
- PVM uses an interpreter which understands the byte code and convert it into machine code
- Machine Code instructions are then executed by the processor and results are displayed
- 



# Python Virtual Machine

**Python Virtual Machine (PVM)** is a program which provides programming environment. The role of PVM is to convert the byte code instructions into machine code so the computer can execute those machine code instructions and display the output. Interpreter converts the byte code into machine code and sends that machine code to the computer processor for execution.



# THANK YOU!!!

I hope you can get helpful  
knowledge from this presentation.  
Good luck!

