

# Leaders' School & College Chattogram Class: IX (Bangla Version)

L#01

**Topic Name: Introduction to Python Programming** 

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- ☐ What is Programming?
- ☐ What is Programming Language?
- ☐ Why We Choose Python?
- ☐ Creating Environment
- ☐ Your First Python Program
- ☐ How to Run Your Program
- ☐ How Python Code is Executed
- ☐ A Simple Test!

### Have you Ever Made a Recipe?



# Pancake

**Easy Recipe** 

#### **Ingredients**

- 250g plain flour
- 1/2 tsp baking soda
- 1/2 tsp salt
- 1 tsp sugar
- 1 egg
- 250ml buttermilk



#### **Directions**

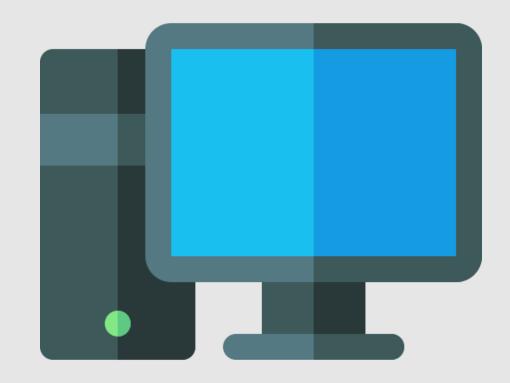
- Sift the dry ingredients in a bowl.
- Make a hole in the middle and add the egg.
- Mix them quickly after breaking the yolk and pouring in the buttermilk until they become stick batter.
- Do not beat when mixing as gluten will appears in the flour, which will prevent the pancakes from rising.
- Fry the mixture in hot griddle pan and served when it is still hot

☐ We need to Follow some instructions!

☐ Finally, we will be able to make a delicious item.

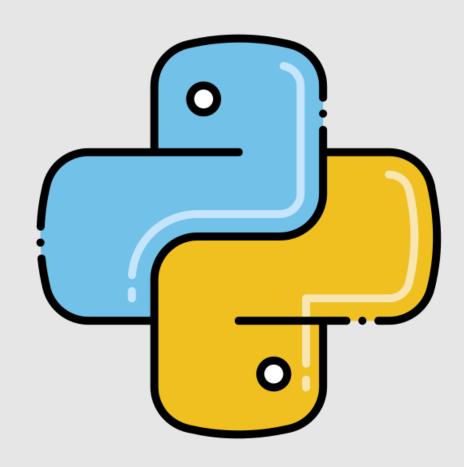
# What is Programming?

- ☐ Computer only understand 0 and 1
- ☐ We need to give instructions to a computer on what to do
- ☐ Program is a set of instructions to do a particular task



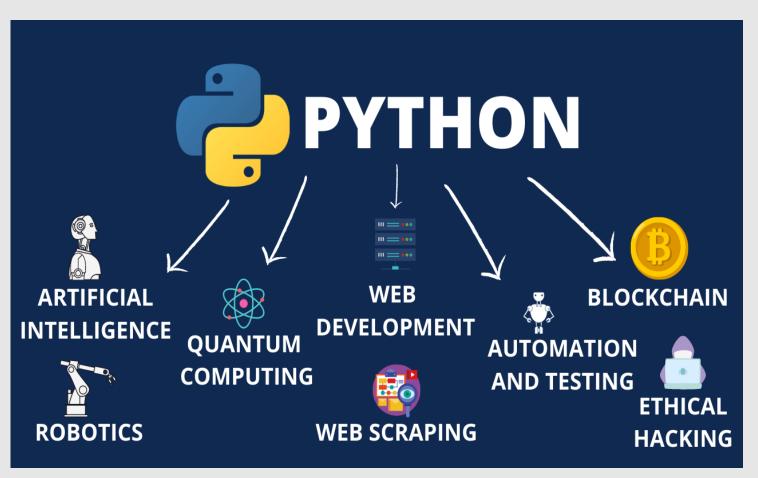
## What is Programming Language?

- ☐ We use language to communicate with each other
- ☐ To communicate with computer: for giving instructions, we need to use a language
- ☐ Python is one kind of Programming Language
- ☐ C, C++, Java, C#, JavaScript etc.



# Why we choose Python?

- ☐ Easy to learn and read
- ☐ Versatile: Web
  Development, Data
  Analysis, Scientific
  Computing, Artificial
  Intelligence, Machine
  Learning, Automation

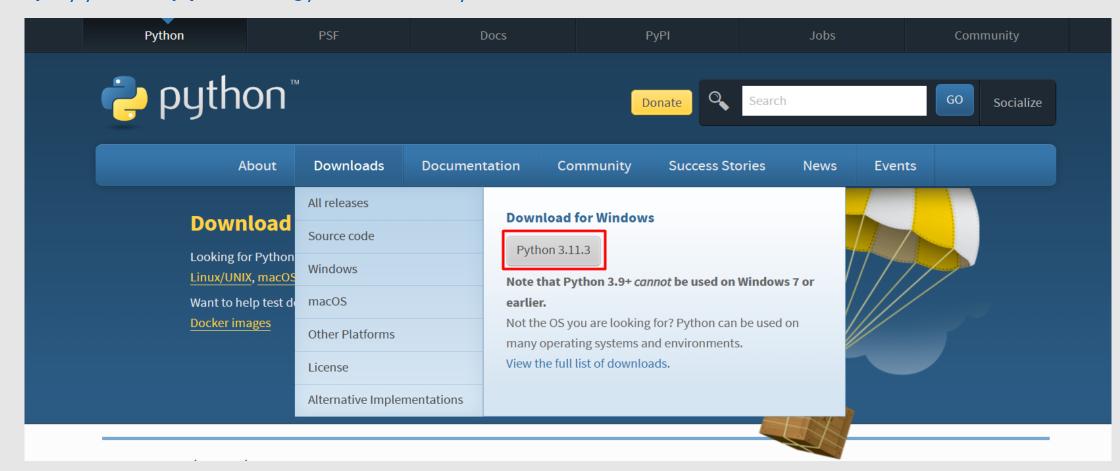


### Creating Environment: Installing Python and PyCharm



### ☐ To install Python: visit

https://www.python.org/downloads/ -



### Creating Environment: Installing Python and PyCharm





https://www.jetbrains.com/pycharm/download/



Version: 2023.1.2 Build: 231.9011.38 17 May 2023

System requirements

Installation instructions

### **Download PyCharm**

Windows macOS Linux

#### **Professional**

For both Scientific and Web Python development. With HTML, JS, and SQL support.

Download .exe ▼

Free 30-day trial available

#### Community

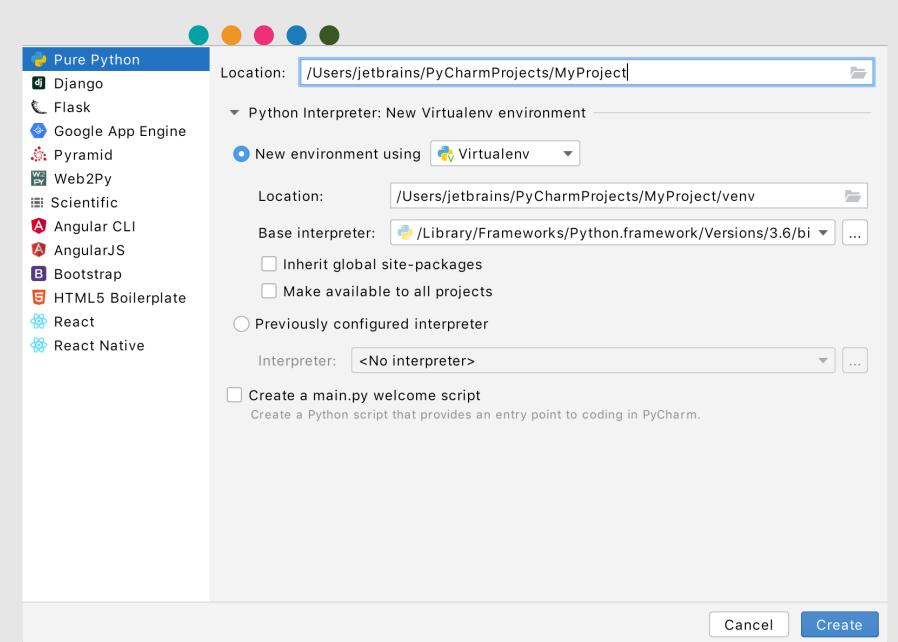
For pure Python development

Download .exe ▼

Free, built on open-source

### Creating Environment: Your First Python Project

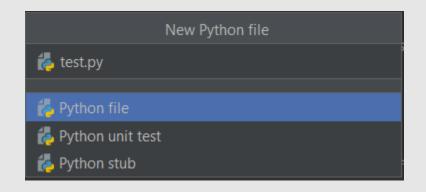
- If you're on the Welcome screen, click **New Project**.
- If you've already got any project open, choose File | New Project from the main menu.

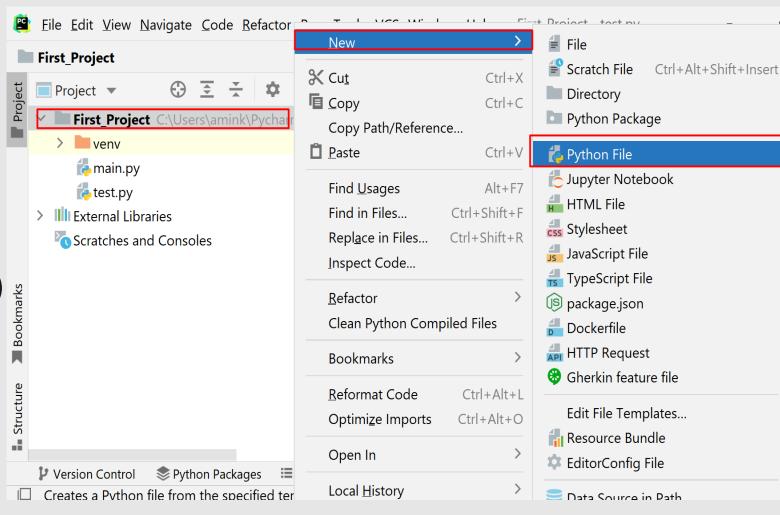


### Creating Environment: Your First Python Project



- In the **Project** tool window, select the project root (typically, it is the root node in the project tree), right-click it, and select **File** | **New> Python File**
- ☐ Type a File name.py(test.py)

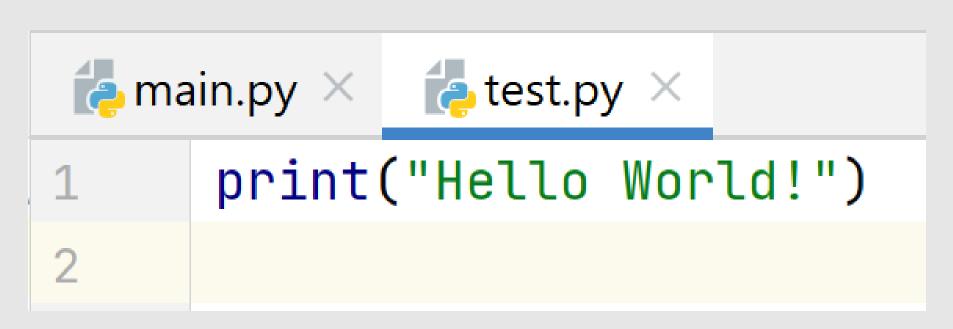




### Your First Python Program: Print a Message!



□ print("Your Message")



### Run Your Program



- Right-click the editor and select **Run** 'test' from the context menu
- ☐ Press Ctrl+Shift+F10
- ☐ Since this Python script contains a main function, you can click an icon the gutter.

Problems

**□**Output:

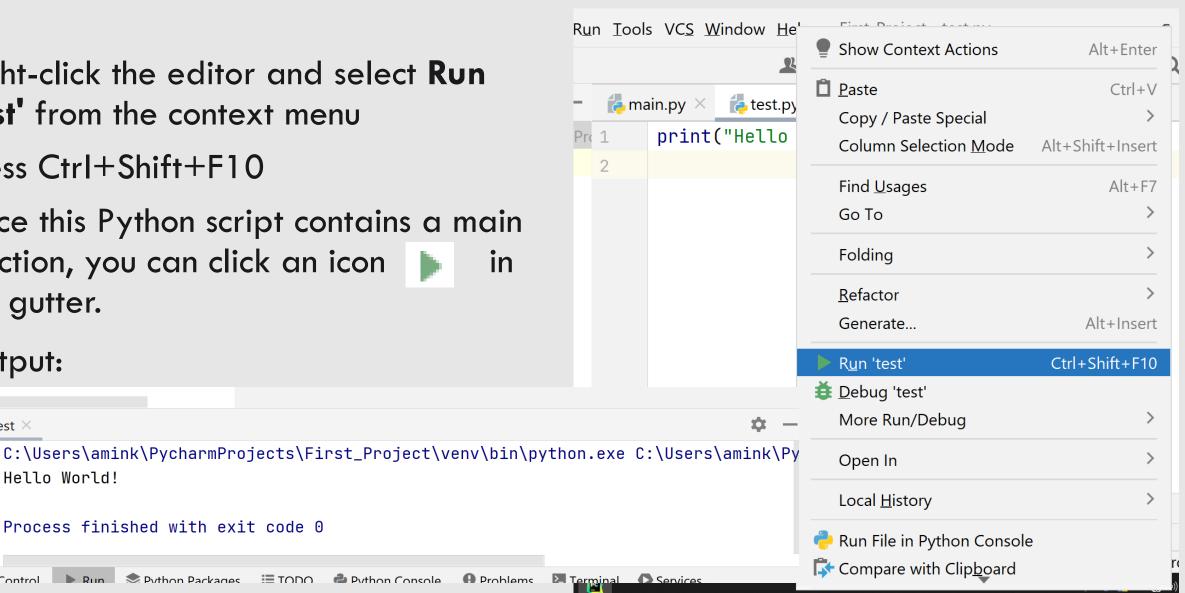
test ×

Hello World!

Version Control Run Python Packages

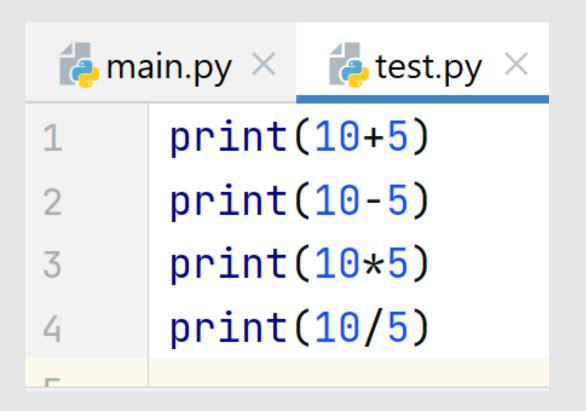
Process finished with exit code 0

Run:

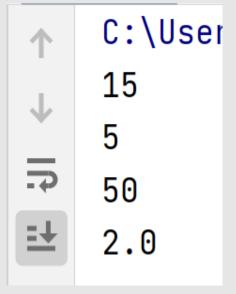


### Mathematical Operations on print()



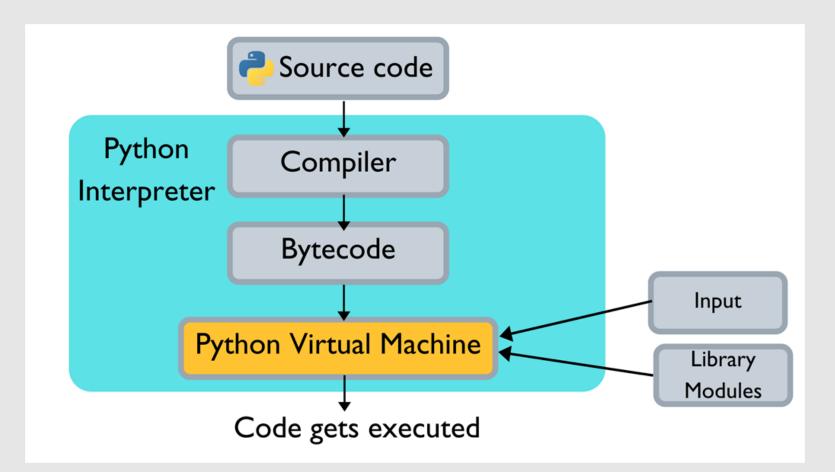


### Output:



## How Python Code is Executed?

We are writing our code that's human-readable, but we know computers only understand 0/1. So how do computers understand our code?



## Test!

Print Your Name, Roll, Class, School Name on Output Screen

Name: Amin Kaiser

Roll: 03

Class: 09

School Name: Leaders' School and College

### Solution!



Print Your Name, Roll, Class, School Name on Output Screen

```
print("Name: Amin Kaiser")
print("Roll: 03")
print("Class: 09")
print("School Name: Leaders' School and College")
```

## Q/A Session

