Chapter – 20 Introduction to Python

Lesson Objective :

- Introduction to Python
- Using online Python platform
- Using offline Python platform

Skills to be attained : The various ways a python program to be executed.

Tools / Websites / Resources :

1. https://www.onlinegdb.com//
2. gedit text editor in Hitech lab

Teacher Led Instruction :

Python is a very popular general-purpose programming language which was created by Guido van Rossum, and released in 1991.

It is used for:

- web development (server-side),
- software development,

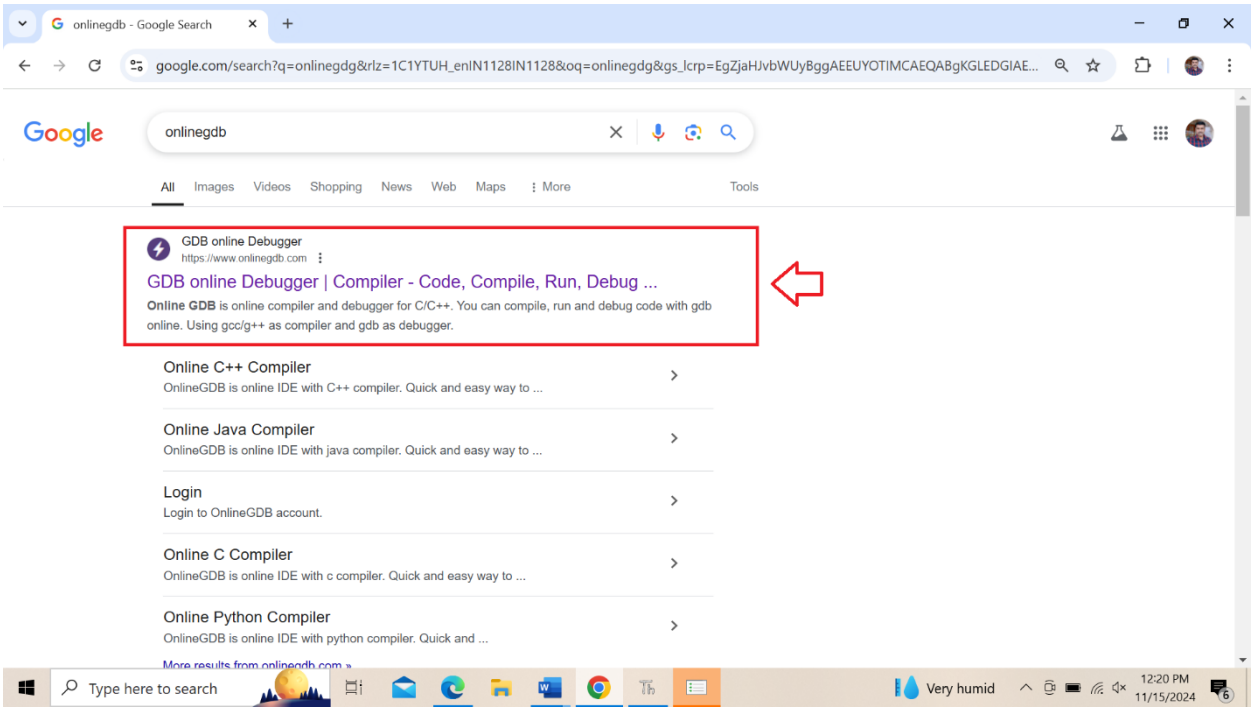
You can execute Python programs in several ways:

1. Online Python platforms
2. Integrated Development Environments (IDEs)
3. Mobile apps

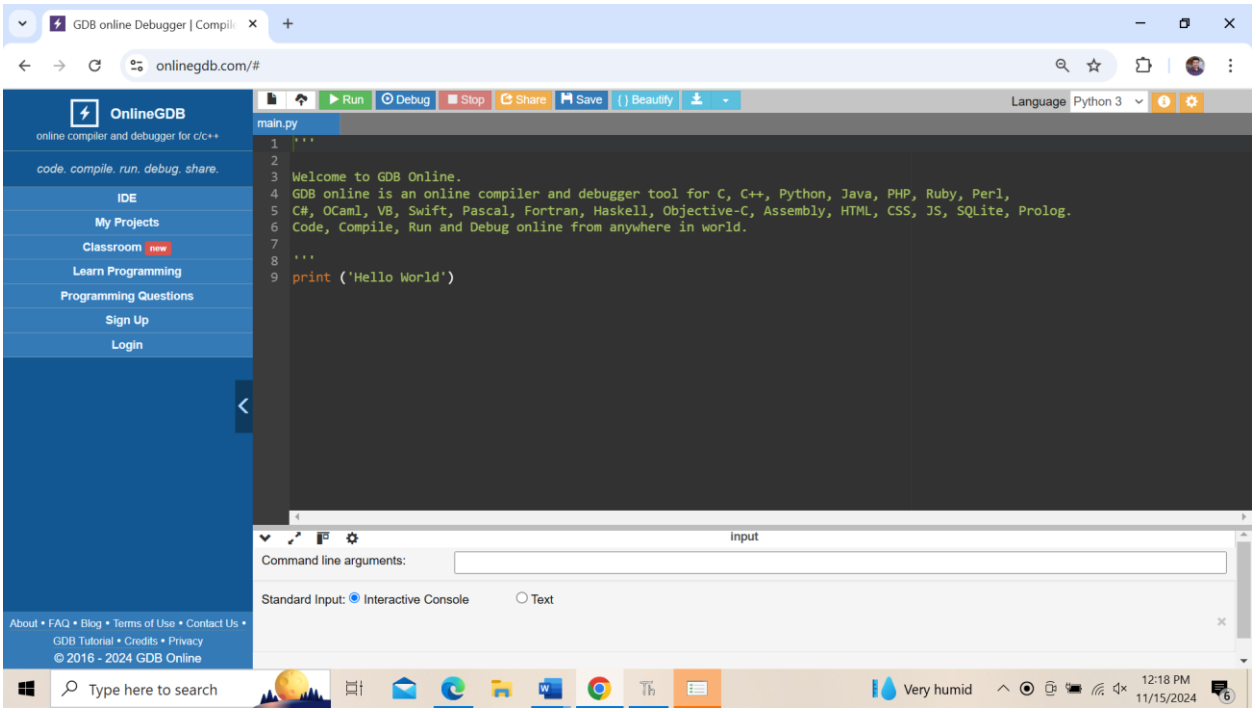
Using online python interpreter :

We can easily write, run and share Python code online using OneCompiler's Python online compiler for free.

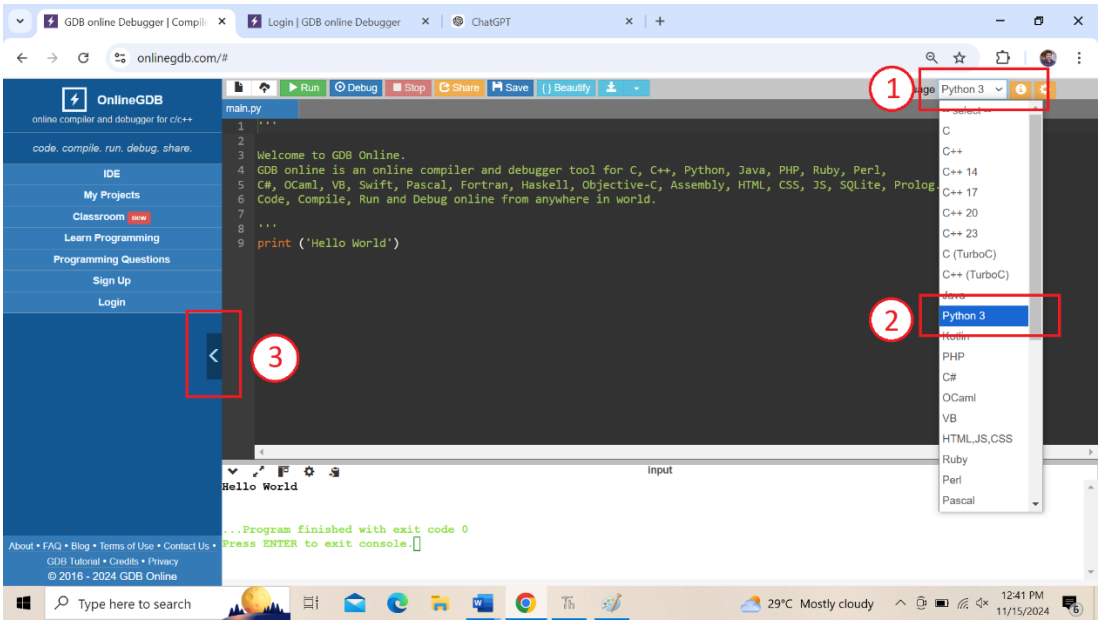
Step 1 : type **https://www.onlinegdb.com/f** in address bar of the browser to open onlinegdb compiler page.



Step 2 : click on onlinegdb.com link to open GDB online compiler. After clicking on the link, you will get the following page



Step 3 : click the drop down list (1) to choose python (2) programming language and click arrow key(3) to close the left pan to make the window to type python code.

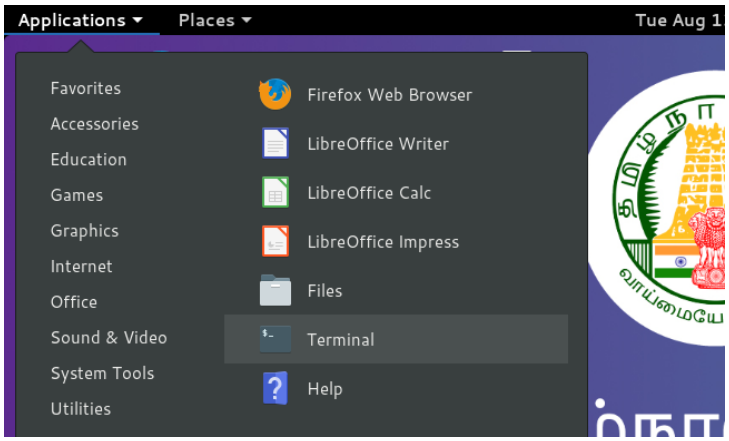


Step 4 : Click on Run button or function key F9 to get the output of the code.

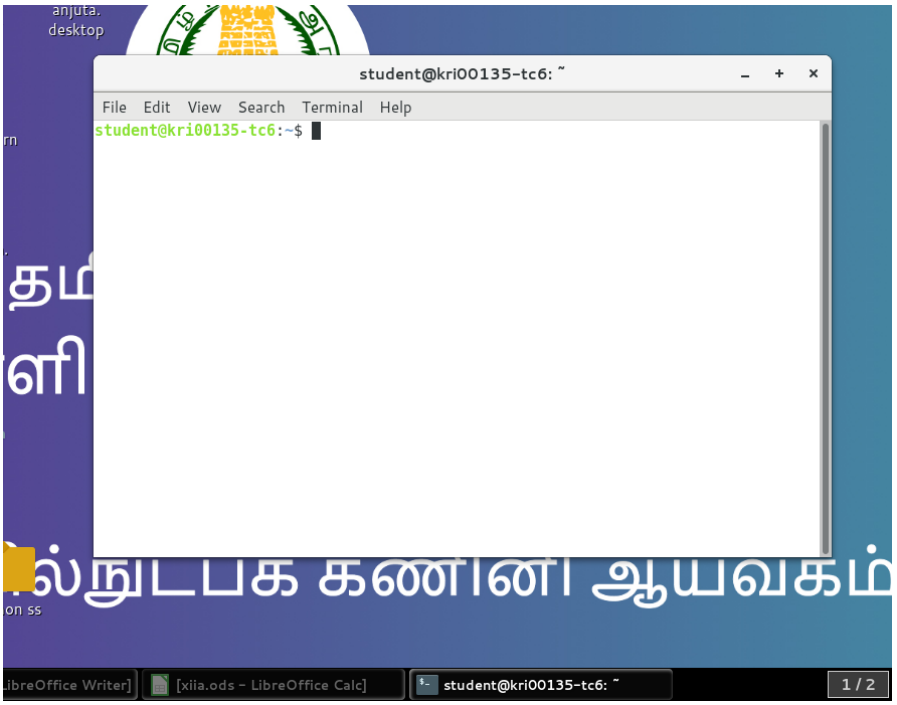
Step 5 : To download the code to the system, click over the download button.

Using offline python IDE (Integrated Development Environment) The following steps also can be used to execute python in hitech lab.

To execute python programs in hitech lab in offline, the following steps have to be followed.

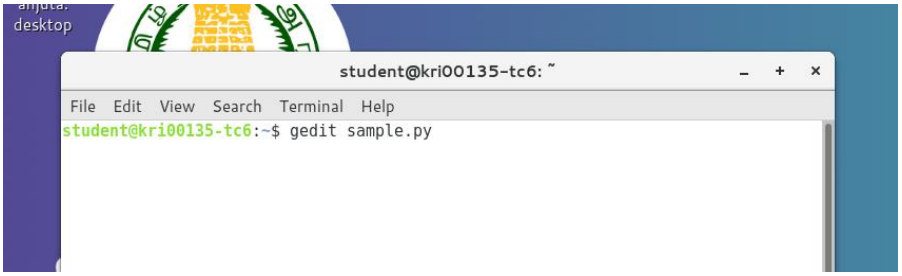


Step 1: Select **Terminal** in Application menu

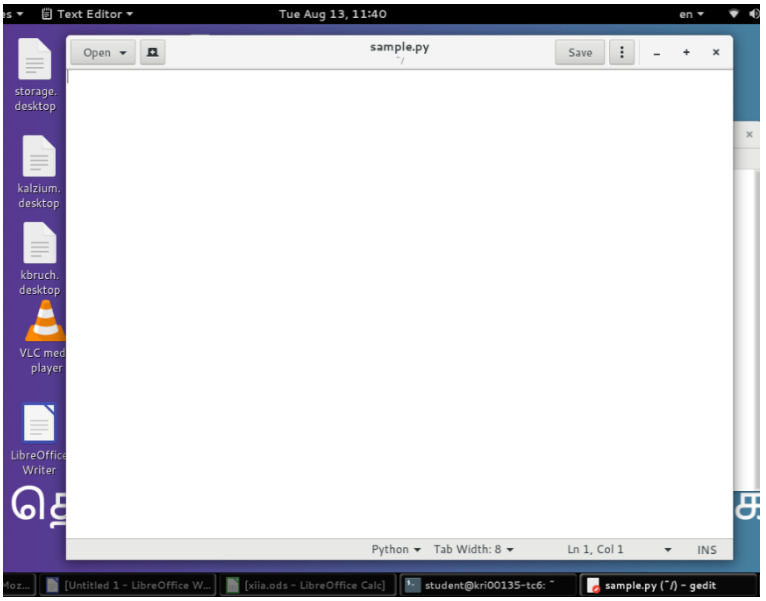


Step 2: Terminal window will be opened with the terminal prompt $

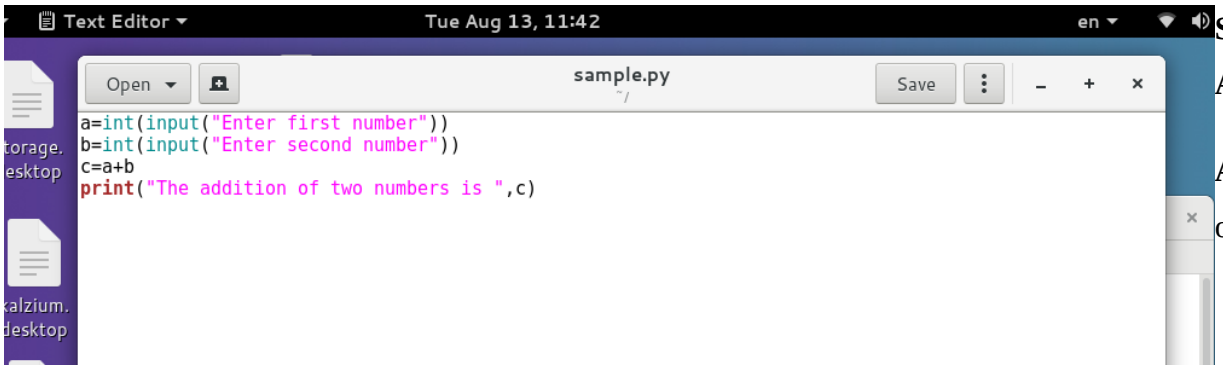
Step3 : type **gedit** as displayed below to open text editor with a file name **sample.py**



Step 4 : A text editor window will be opened with a filename sample.py



Step 5 : Type the python code on the text editor window and save the file clicking on the save button and close the window.



Student Activity :

Activity 1: open OneCompiler.com, type print(“Hello Python”) and run and show the output.

Activity 2 : Open an offline python compiler, type print(“Hello Python”) and save the code as hello.py