

Lesson-2: Introducing Python Programming Language

IMPORTANT NOTE: Convince your mind, you may not be able to understand everything today – Don't Panic. Just move on.

Credits & Appreciation:

- Guido Van Rossum
- In 1991

What is the first step to learn Python?

OK! What is the first step to cook your favorite Hyderabadi Vegetable Biryani?

How to install Python onto your computer?

<https://subhashprogrammingclasses.in/how-to-install-python-on-windows-linux-macintosh/>

<https://subhashprogrammingclasses.in/how-to-get-started-with-python-idle/>

What is the difference between C, Java and Python?

1. In Java:

```
public class Add
{
    public static void main( String [] args )
    {
        int a, b;
        a = b = 10;
        System.out.println("Sum = " + (a+b));
    }
}
```

2. In C:

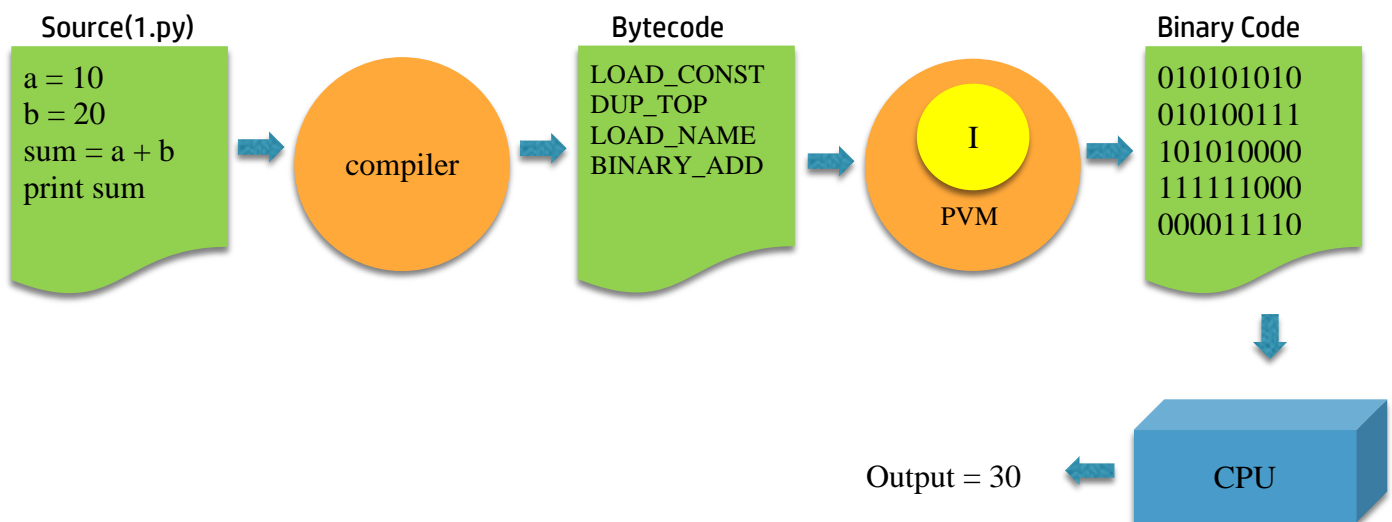
```
int main()
{
    int a, b;
    a = b = 10;
    printf("Sum = %d\n", (a+b));
}
```

3. In Python:

```
a = b = 10
print( "Sum = ", (a+b))
```

What are the main features of Python?

- Simple
- Easy to learn
- Open Source
- High Level Language
- Dynamically Typed
- Platform Independent
- Portable
- Procedure Oriented & Object Oriented
- Huge Set Of Libraries (Batteries Included)
- Database connectivity

How does Python program execute?**Try this:**

- `py -3 -m py_compile myfirstprogram.py` (Generates Bytecode)
- `cd __py__cache__`
- `py -3 myfirstprogram.cpython-39.pyc`

OR

- `py -3 myfirstprogram.py` (Gives you the output)

Flavors Of Python:

Cpython (www.python.org)

Jython (www.jython.org)

IronPython (www.ironpython.net)

RubyPython (www.rubygems.org/gems/rubypython/versions/0.6.3)

Memory Management In Python:

