

# INTRODUCING PYTHON

CLASS VI CH8

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**CHANGING YOUR TOMORROW**

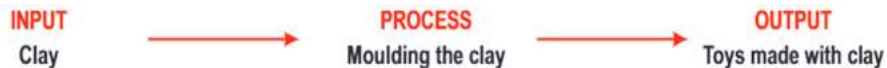
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# LEARNING OUTCOME

- *Use of interpreter*
- *Using printf()*
- *Using IDE as Calculator*
- *Variables in python*

# Use of Interpreter

- In the interactive mode of Python, the commands are executed line by line.
- When you type a command next to the python prompt (>>>) and press the Enter key, the Interpreter converts the command into machine language.
- After processing, the Interpreter again converts the machine code into human readable form (output).

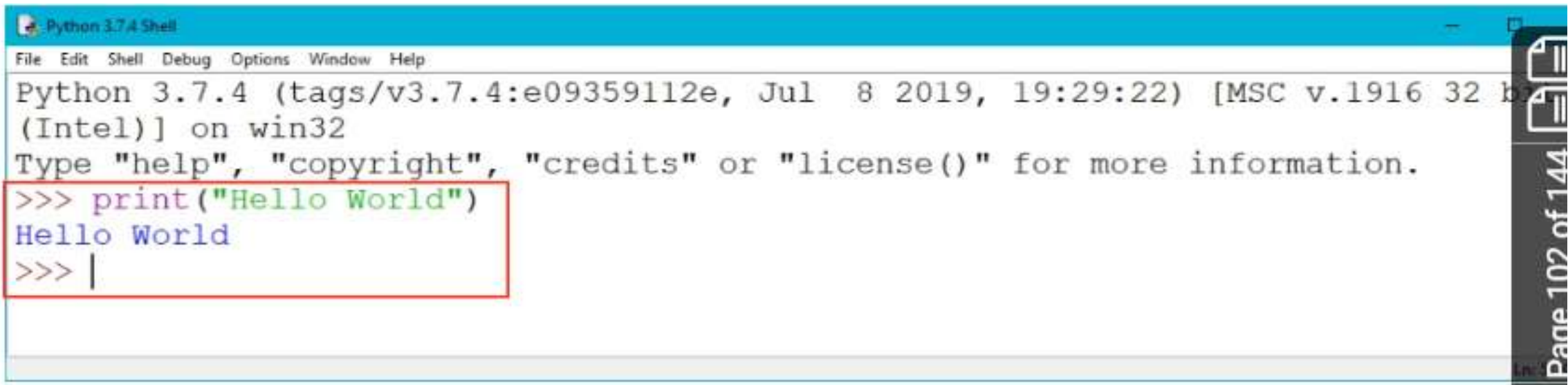


# Using print() function

The print() function is used to display the output of any command on the screen. It can also be used to print the specified messages.

For example:

**>>>print ("Hello World") will display Hello World**

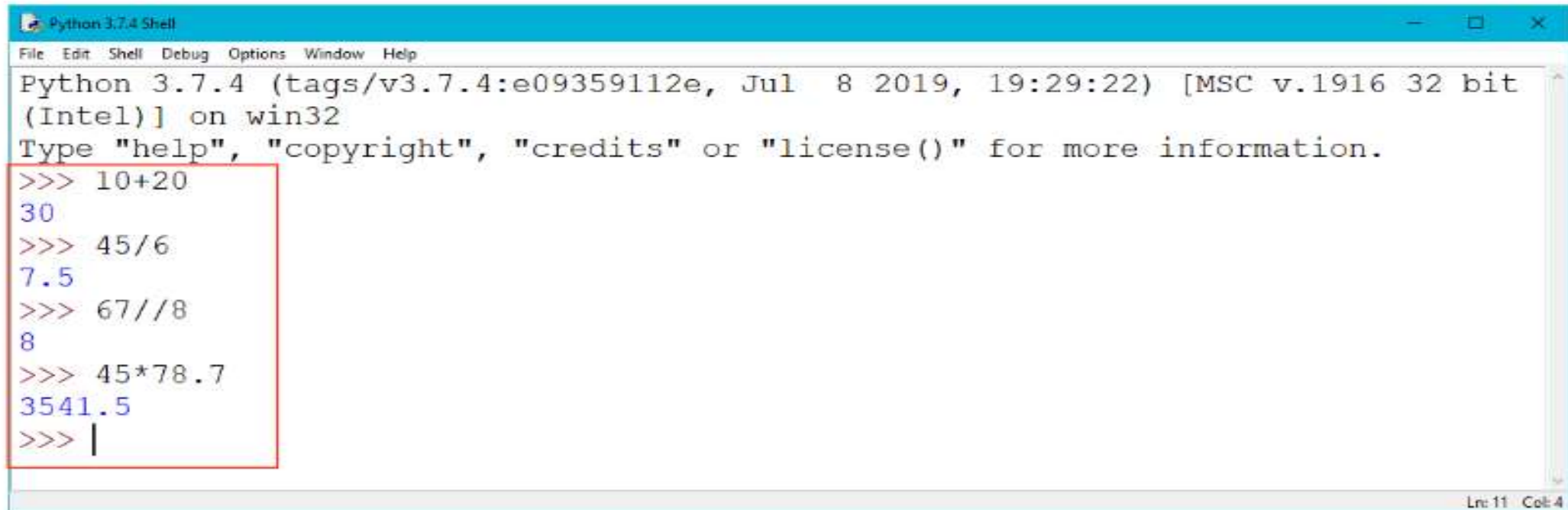


```
Python 3.7.4 Shell
File Edit Shell Debug Options Window Help
Python 3.7.4 (tags/v3.7.4:e09359112e, Jul 8 2019, 19:29:22) [MSC v.1916 32 b
(Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>> print("Hello World")
Hello World
>>> |
```

# USING ID AS CALCULATOR

## Using IDLE as a calculator

To evaluate an arithmetic expression, it is not necessary to use the `print()` function. If you type an arithmetic expression at the Python prompt and press the **Enter** key, the interpreter automatically evaluates it and shows the result. In this case, the interpreter acts as a simple calculator. The expressions are evaluated using operators like `+`, `-`, `*`, `/`, etc. The basic **BODMAS** rules are followed for performing calculations. For example:



```
Python 3.7.4 Shell
File Edit Shell Debug Options Window Help
Python 3.7.4 (tags/v3.7.4:e09359112e, Jul 8 2019, 19:29:22) [MSC v.1916 32 bit
(Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>> 10+20
30
>>> 45/6
7.5
>>> 67//8
8
>>> 45*78.7
3541.5
>>> |
```

The screenshot shows a Python 3.7.4 Shell window. The title bar is "Python 3.7.4 Shell". The menu bar includes "File", "Edit", "Shell", "Debug", "Options", "Window", and "Help". The main text area shows the Python version and environment information, followed by a prompt for help. A red box highlights the following input and output:

Input	Output
<code>&gt;&gt;&gt; 10+20</code>	<code>30</code>
<code>&gt;&gt;&gt; 45/6</code>	<code>7.5</code>
<code>&gt;&gt;&gt; 67//8</code>	<code>8</code>
<code>&gt;&gt;&gt; 45*78.7</code>	<code>3541.5</code>
<code>&gt;&gt;&gt;  </code>	

The status bar at the bottom right shows "Ln: 11 Col: 4".



## Recaptulation

- In the interactive mode of Python, the commands are executed line by line.
- When you type a command next to the python prompt (`>>>`) and press the Enter key, the Interpreter converts the command into machine language.
- The `print()` function is used to display the output of any command on the screen.

## HOME ASSIGNMENT

- 1 what is Interpreter?
- 2. what is print()?
- 3. how id work as a calculator?

**THANKING YOU**  
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