### **Python Comments**

- Comments are lines that exist in computer programs that are ignored by compilers and interpreters.
- Including comments in program makes code more redable for humans as it provides some information or explation about what each part of program is doing.
- In general, it is a good idea to write comments while you are writing or updating a program as it is easy to forget your thought process later on, and comments written later may be less useful in the long term.

### In Python, there are two ways to annotate your code.

### 1. Single-line comments

Single-line comments are created simply by beginning a line with the hash (#) character, and they are automatically terminated by the end of line.

For Example:

```
In [1]: #print Hello, world!! to consol
    print ("Hello, world!!")
Hello, world!!
```

#### 2. Multi Line Comments

• If we have comments that exends multiple line, one way of doing it is to use hash(#) in the beginning of each line.

```
In [2]: # This is
# supposed to be
# multi line comment
```

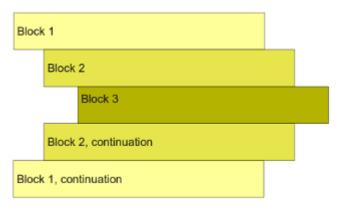
Another way of doing this is to use triple quotes, either " or """.

```
In [3]: """This is also
    supposed to be
    example of
    multi line comment"""
```

Out[3]: 'This is also \nsupposed to be\nexample of \nmulti line comment'

## **Python Indentation**

- Most of the programming languages like C,C++,Java use braces {} to define a block of code.
- One of the most distinctive features of Python is its use of indentation to mark blocks of code.
- A code block(body of function,loop etc) starts with first unindented line. The amount of indentation is upto you, but it must be consistent throughout that blok.
- Generally four whitespaces are used for indentation and is preferred over tabs.



Indentation can be ignored in line continuation. But it is a good idea to always indent. It makes code more redable.

```
In [6]: if True:print("Center For Cloud-Computing and Technologies");sort = "CCT";prin
t("(" + sort +")")

Center For Cloud-Computing and Technologies
(CCT)
```

# **Python Statement**

Instructions that a Python interpreter can execute are called statements. Example:

```
In [7]: a = 10 #single assignment_statement
```

#### **Multi-Line Statement**

In Python,end of a statement is marked by a newline character.But we can make a statement extend over multiple lines with the line continuation character().

Another way is to use paranthesis

```
In [10]: a = (1 + 2 + 3 + 4 + 5 + 6 + 7 + 8 + 9 + 10)
```

```
In [11]: print(a)
55
```

Or we can put multiple statements in a single line using;

```
In [12]: a = 2; b = 4; c = 6
```

In [13]: print(a+b+c)

12