

## Two types of comments

- Single line comment  
# My 1st program



Key words :-

They are the reserved words used for particular task and they cannot used as identifiers (variable, function name... etc)

ex:- True | false, for, if, else, while, break

-> variables :- ~~variables are like boxes or containers~~  
it is places where we store our values.

Ex:  $a = 5$

A is the variable & is the value

↳ valid variable declaration

$$a = 5$$

A = 10

Num = 1

NUM = 11

Emp-ID = 123

emp name = "Nisha" or 'Nish' ~~nitawalwa~~

\* invalid variable declaration :-

- variable should not start with the numbers ex:-  $\ln =$

```
= struct#name@ = "down"
```

- `Stu#name@ = "awn"` for flag we get

- stu id = 345

<sup>↑</sup> should not give any spoke

- Data types :-
- \* It is a pre-defined component and specify the data category

Python  
Types of datatype :-

- \* int, float, complex (comes under Numerical data type)
- \* str, bool (real & imaginary)  
e.g.:  $5j + 7$

Special datatypes (data structures)

\* list

\* tuple

\* list

\* dict

- Complex :-

Real      Imaginary

$5j + 7$       } Input  
type (a)

Complex      → Output

Ex: a = 2, b = 3, c = 4

b = 3

a, b, c = 4, 6, 7

c = 4

→ Input and output function

Input :- Anything we take it from user is called  
input input()

Output :- Anything we display to user is called  
output output()

eg:- a = int(input())

1.

b = int(input())

2

a+b

3

Page No.:

Date:

Write a program to read employee id,  
employee name, employee phone num  
and print the details

a = str(input("enter employee name:"))

b = str(input("enter employee ID:"))

c = int(input("enter employee phone:"))

print(a)

print(b)

print(c)

Output:- Enter employee Name: nisha

enter employee ID : 018B1210018

Enter employee Phone: 6362621641

nisha

018B1210018

6362621641

-->  $a = \text{float}(input("Enter a value:"))$   
 $b = \text{float}(input("Enter b value:"))$

$a = 2.5$ ,  $b = 3.5$

$a + b = 6.00$

+  
 $a + b$        $a + b$

print( $a + b$ )

```
x = float(input("Enter a value:"))
y = float(input("Enter a value:"))
print(x+y)
```

or

```
print(x, "+", y, "=", x+y)
print("Sum of:", x, "+", y, "=", x+y)
print("Sum of {} + {} = {}".format(x,y,x+y))
```

↓      ↓      ↓      ↓      ↓      ↓

#. format method

```
print(F"Sum of {x} + {y} = {x+y}")
```

### S/09/10x

→ WAP to calculate area of triangle and circle  
 with given input

$$A_{\text{tri}} = 0.5 \times b \times h$$

$$A_{\text{circle}} = 3.142 \times r \times r$$

program:-

```
b = float(input())
h = float(input())
r = float(input())
Atri = 0.5 * b * h
Acircle = 3.142 * r * r
```

↑      ↓      ↓      ↓      ↓      ↓

formula apply

1) print("The area of triangle is  $A_{\text{tri}}$ " )  
 In  
 The area of circle is  $A_{\text{circle}}$

↑      ↓      ↓      ↓

formula apply