comments:

they are part of code, but they won't consider in execution.

Two types of comment in python

```
1. single line comment
```

my first program

2. multi line comment

```
"" "" or """ """
```

Keywords:

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

```
ex: true, false, for, if, else, while, break, try, except, finally, .....etc
```

Variables:

It is place to store our values

```
EX: a=5
```

"a" is a variable "5" is the value

valid variable declaration:

a=5

A=7

num = 11

Num1 = 89

Num2 = 15

empid = 123

emp_name = "Priyanka" or "Priya"

emp_phno = 9861256188

invalid variable declaration:

1n = 35

stu#name@ = "arun"

stu id = 345

Data Types:

c=7

a=4; b=6; c=7 a,b,c = 4,6,7

it's pre defined component and specify the data category

```
person data
name = str (alpha)
age = int
phone no = str "bcz we are not performing any calculations so we can store in str instead of int"
job = str
instaid = str
Mstatus = str
edu = str
salary = float
height = float
weight = float
gender = str
hobbies = str
DOB = str conert to date using libraries
nationality = str
address = str
food = str
fav place = str
Python data types
int = numeric
float = numeric
complex = ex: 5j+7
str = alpha
bool = true or false
Special data types (data structure)
list
tuple
set
dict
in python every line considered as a new line
a=4
b=6
```

```
Input function: input()
output function: print()
EX:
take a = 9 and b = 3
a = int(input("enter a number:"))
b = int(input())
a+b = 12
a = input("enter a number:")
b = input()
a+b = 93 bcz it will take as a string
a = input("enter a number:")
b = int(input())
a+b = error bcz data type is different
Q. write a program to read employee id, employee name, employee phone num
emp_id = int(input("Enter employee id:"))
emp_name = input("Enater employe name:")
emp_ph = input("Employee Phone Number:")
print(emp_id, emp_name, emp_ph)
Q. read 2 float number from use
num1 = float(input("Enter the first number: "))
num2 = float(input("Enter the second number: "))
print( num1, "and", num2)
print(num1+num2)
print(num1, "+", num2, "=", num1+num2)
print("sum of:", num1, "+", num2, "=", num1+num2)
#.format method
```

print("sum of: {} + {} = {}".format(num1,num2,num1+num2))

print(f"sum of: {num1} + {num2} = {num1+num2}")

#fstring method

#write a program to calculate area of a triangle and circle with given input

```
h = float(input("height of triangle"))
b = float(input("base of triangle"))
pie = 3.14
r = float(input("radius of circle"))
aot=0.5*b*h
aoc=3.14*r*r
#fstring method
print(f"area of triange is {aot}\n\narea of circle is {aoc}")
print(f"area of triange = {0.5*b*h}\narea of circle = {3.14*r*r}")
```