■ Comments in Python:
They are parts of the code that are not executed. They're written just to explain what the code does . It consist of 2 types namely:
■ Single -line comment : Starts with #
Example: # This is a single -line comment
■ Multi -line comment : Enclosed in ''' ''' or """ """
Example : '''This is a multi -line
comment''' .
■ Keywords: They are special reserved words that have special meaning but cannot be used as identifiers.
Examples: True, False, bool, try, for, else .
■ Identifiers: are the names we use to create variables, functions, classes.
■ Data Types: define the type of data a variable can hold. Common ones include:
str – for tex t
int – for whole numbers
float – for decimal numbers
complex – for complex numbers (e.g., 3 + 4j)
bool – for True/False values
■ Sequence Data Types (Data Structures)
These are types of sequence data types which is used to store collections of data:
■ str – includes as String (text)
■ list – data will be stored in o rdered format , (changeable)
■ tuple – Ordered, (but unchangeable)
■ set – data follows u nordered format but includes unique items
■ dict–collection of key -value pairs is considered as dictonary.

■ Variables : are names used to store data in a program .
Rules to declare variable:
a=2 | A=77 | num=10 | num1=7 | NUM1=45 | stud_name="Shashank" | Stu_id=64
StuId=106
Multiple variables in single line declaration :
a,b,c=5,6,7
x=7;y=8;z=9;
Invalid Variable declaration:
1num=5 | stu name="dhoni" | @num$=8

■ Input / Output Statement :
Input function : The input() function is used to take input from the user as a string.
Example: name = input("Enter your name: ")
Output function : The print() function is used to display information on the screen.
Example: print(" Dhoni finishes off in style!! ")
Different ways to use print() statements:
1. using .format() method: the values can be inserted into a string using curly brackets {} and .format()
example: id = 10
print("Employee ID = {}".format(id))
2. using f-strings:
example: id = 10
print(f"Employee ID = {id}")