

* Expressions

- An Expression is a combination of values, variables and operators.
- ↳ A value all by itself is considered an expression, and so is a variable, and following are all legal expression

Ex: $a+b=5$

- An expression is any valid combination of operators, literals and variables.

* How to create an Expressions:-

Python expressions only contain identifiers, literals and operators.

- ↳ Identifiers:- Any name that is used to define a class, variable or object is an identifier.
- ↳ Literals:- There are language independent terms in Python.
- ↳ Operators:- Operators are special symbols in Python.

Types of Expression :-

1. Arithmetic expressions.
2. Relational expressions.
3. String expressions.
4. Logical expressions.
5. Compound expressions.

1 Arithmetic Expressions :-

Arithmetic expression involve number and arithmetic operators.

for example :-

$$x = a + b * c$$

$$a = 4$$

$$b = 5$$

$$\text{sum} = a + b$$

print(sum)

- ### 2 Relational expressions :- It is also known as Boolean expression.

→ Combination of valid operands and relational operators is known as Relational expression.

example :-

$$a < b$$

$$a + b > 2$$

3 Logical expressions:-

It combine two or more relational expressions and produce bool type results.

example: $x > y \ \&\& \ x == 10$

$x == 10 \ || \ y == 5$

4 String Expressions:-

An expression having any valid combination of string operators (+ and *) and string operands is known as string Expression.

$\text{name} = \text{"palvi"} + \text{"Flora"}$

5 Compound Expressions

An expression having more than one expression is known as compound expression.

$x > 10 \ \text{and} \ y == 20$

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