

Arithmetic Operators

- used for performing numeric calculation.
- generates a numeric result.

(i) Addition (+) → to add two numbers.

e.g.

$$x = 4 + 9$$

$$\therefore x = 13$$

(ii) Difference (−) → to subtract one number from another.

e.g.

$$m = 4 - 9$$

$$\therefore m = -5$$

(iii) Product (*) → to calculate product of two numbers.

e.g.

$$n = 4 * 9$$

$$\therefore n = 36$$

(iv) Exponent (**) → to calculate exponentiation of a given number (base) to the power of another number (exponent)

Syntax:-

Variable = base ** exponent

E.g. $m = 2 ** 6$

∴ $m = 64$

(v) Division (/) → It calculates quotient after dividing one number by another number.

E.g.

$x = 14 / 4$

∴ $x = 3.5$

(vi) Floor Division (//) → It returns integer quotient after dividing one number by another number.

E.g.

$$x = 14/4$$

$$\therefore x = 3.0$$

(vii) Modulo (%) \rightarrow It returns remainder after dividing one number by another.

E.g.

$$m = 14 \% 4$$

$$\therefore m = 2$$

Program :- To calculate area of circle

#input radius of circle

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radius = float(input("Enter radius of circle  
(in cm):"))
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```
# — — — — — — — — — —
```

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Area = 3.14 * (radius ** 2)
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print("Area :", area, " sq. cm")
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Output:-

Enter radius of circle (in cm): 7.0

Area: 153.86 sq.cm

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