

## Arithmetic Operators

- Used for performing numeric calculation.
- Generates a numeric result.

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

e.g.

$$\begin{aligned}x &= 4 + 9 \\ \therefore x &= 13\end{aligned}$$

(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.  $m = 4 * 9$   
 $\therefore m = 36$

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

Syntax:-

Variable = base  $\star\star$  exponent

e.g.  $m = 2 \star\star 6$

∴  $m = 64$

(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

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

# -----

area = 3.14 \* (radius \*\* 2)

print("Area : ", area, "sq. cm")

Output:-

Enter radius of circle (in cm): 7.0

Area: 153.86 sq.cm

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