

Python Core Assignments -Week 2

Datatypes (int, string, float), Operators, Variables, input function

Note: - All the question should be complete in the console and GUI Widows

1. Raj's kitchen is **5 meter** long and **3 meter** broad. Find the area of the floor of the kitchen.

Solution:

Area = length × breadth

$$= 5 \times 3$$

$$= 15 \text{ sq. m}$$

2. Find the area of a rectangular park whose length and breadth are **25 m** and **15 m** respectively. ()

Solution:

Length of a rectangular park = 25 m

Breadth of a rectangular park = 15 m

Area of the park = length × breadth

$$= 25 \text{ m} \times 15 \text{ m}$$

$$= 375 \text{ sq. m}$$

3. Find the area of a rectangle of length **12 cm** and breadth **3 cm**.

Solution:

Length (l) of the rectangle = 12 cm.

Breadth (b) of the rectangle = 3 cm.

Area of the rectangle = length × breadth

$$= 12 \times 3 \text{ sq cm.}$$

$$= 36 \text{ sq cm.}$$

4. Find the area of a rectangle of length **15 cm** and breadth **6 cm**.

Solution:

Length of the rectangle = 15 cm.

Breadth of the rectangle = 6 cm.

Area of the rectangle = $l \times b$

$$= 15 \times 6 \text{ sq cm.}$$

$$= 90 \text{ sq cm.}$$

5. Robert wants to paint the front wall of his house. The wall is **3 m** long and **2.5 m** broad. If the cost of painting is **\$ 120 per square metre**, find the cost of painting the wall.

Solution:

Length of the wall = 3 m

Breadth of the wall = 2.5 m

Area of the wall = $3 \times 2.5 \text{ sq. m}$

$$= 7.5 \text{ sq. m}$$

The cost for per square metre painting is \$ 120.

Therefore, the cost for 7.5 sq. m painting is $7.5 \times 120 = \$ 900$

6. Find the area of a rectangle of length **17 cm** and breadth **9 cm**.

Solution:

The length of the rectangle = 17 cm.

the breadth of the rectangle = 9 cm.

The Area of the rectangle = $l \times b$

$$= 17 \times 9 \text{ sq cm.}$$

$$= 153 \text{ sq cm.}$$

7. A tennis court is **24 m** long and **8 m** broad. Find its area.

Solution:

The length of the tennis court = 24 m

The breadth of the tennis court = 8 m

Therefore, the area of the tennis court = 24×8 sq m.
= 192 sq. m

8. Find the area of a rectangle of **length 24 mm** and breadth **8 mm**.

Solution:

Length of the rectangle = 24 mm.

Breadth of the rectangle = 8 mm.

Area of the rectangle = $l \times b$
= 24×8 sq mm.
= 192 sq mm.

9. Find the area of a rectangle of length **37 mm** and breadth **19 mm**.

Solution:

Length of the rectangle = 37 mm.

Breadth of the rectangle = 19 mm.

Area of the rectangle = $l \times b$
= 37×19 sq mm.
= 703 sq mm.

10. Raj has a rectangular garden of length **15 m** and breadth **10 m**. Her friend vamhsi has a square garden of side **12 m**. whose garden is bigger and by how much?

Solution:

Length of Raj's Garden = 15 m

Breadth of Raj's Garden = 10 m

Area of Raj's Garden = 15 × 10 sq. m = 150 sq m

Area of Raj's Garden = 12 × 12 = 144 sq. m

Hence, Raj's Garden is bigger.

11. Creating **Basic**(Static) Employee **Records Management System** using **Console Application**?

Hint: Using Input() function

12.Creating **Basic**(Static) Employee Records Management System using **GUI Application**(tkinter)?

Employee Record Management

Enter Your Employee Full Name:
Enter Your Employee ID :

Enter Your Employee Ph.Number:
Enter Your Employee Email:

Enter Your Employee Department:
Enter Your Employee Address:

Enter Your Employee Expiience:
Enter Your Employee Education:

Enter Jan Salary Amount:

Enter Jan Leaves Amount:

Enter Jan PT Amount:

Paid Jan Salary:

Enter Feb Salary Amount:

Enter Feb Leaves Amount:

Enter Feb PT Amount:

Paid Feb Salary:

Enter March Salary Amount:

Enter March Leaves Amount:

Enter March PT Amount:

Paid March Salary:

Enter April Salary Amount:

Enter April Leaves Amount:

Enter April PT Amount:

Paid April Salary:

Enter May Salary Amount:

Enter May Leaves Amount:

Enter May PT Amount:

Paid May Salary:

Enter June Salary Amount:

Enter June Leaves Amount:

Enter June PT Amount:

Paid June Salary:

Enter July Salary Amount:

Enter July Leaves Amount:

Enter July PT Amount:

Paid July Salary:

Enter Aug Salary Amount:

Enter Aug Leaves Amount:

Enter Aug PT Amount:

Paid Aug Salary:

Enter Sep Salary Amount:

Enter Sep Leaves Amount:

Enter Sep PT Amount:

Paid Sep Salary:

Enter Oct Salary Amount:

Enter Oct Leaves Amount:

Enter Oct PT Amount:

Paid Oct Salary:

Enter Nov Salary Amount:

Enter Nov Leaves Amount:

Enter Nov PT Amount:

Paid Nov Salary:

Enter Dec Salary Amount:

Enter Dec Leaves Amount:

Enter Dec PT Amount:

Paid Dec Salary:

Employee Full Name: Raja Shekar

Employee ID: 31

Employee Phone Number: 9703971577

Employee Email: raj@gmail.com

Employee Department: CSE

Employee Expiience: 12

Employee Education: Bachelor's Degree

Employee Address: Hyderabad

Total Financial Year Amount: 360000.00

Total Number of Leaves: 25

Total PT Amount Debited: 2400.00

Total Paid Salary: 332600.00