

Python Core Assignments -Week 1

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 Expience:
Enter Your Employee Education:

Enter Jan Salary Amount: <input type="text" value="30000.00"/>	Enter Jan Leaves Amount: <input type="text" value="2"/>	Enter Jan PT Amount: <input type="text" value="200.00"/>	Paid Jan Salary: <input type="text" value="27800.00"/>
Enter Feb Salary Amount: <input type="text" value="30000.00"/>	Enter Feb Leaves Amount: <input type="text" value="1"/>	Enter Feb PT Amount: <input type="text" value="200.00"/>	Paid Feb Salary: <input type="text" value="28800.00"/>
Enter March Salary Amount: <input type="text" value="30000.00"/>	Enter March Leaves Amount: <input type="text" value="4"/>	Enter March PT Amount: <input type="text" value="200.00"/>	Paid March Salary: <input type="text" value="25800.00"/>
Enter April Salary Amount: <input type="text" value="30000.00"/>	Enter April Leaves Amount: <input type="text" value="3"/>	Enter April PT Amount: <input type="text" value="200.00"/>	Paid April Salary: <input type="text" value="26800.00"/>
Enter May Salary Amount: <input type="text" value="30000.00"/>	Enter May Leaves Amount: <input type="text" value="1"/>	Enter May PT Amount: <input type="text" value="200.00"/>	Paid May Salary: <input type="text" value="28800.00"/>
Enter June Salary Amount: <input type="text" value="30000.00"/>	Enter June Leaves Amount: <input type="text" value="1"/>	Enter June PT Amount: <input type="text" value="200.00"/>	Paid June Salary: <input type="text" value="28800.00"/>
Enter July Salary Amount: <input type="text" value="30000.00"/>	Enter July Leaves Amount: <input type="text" value="3"/>	Enter July PT Amount: <input type="text" value="200.00"/>	Paid July Salary: <input type="text" value="26800.00"/>
Enter Aug Salary Amount: <input type="text" value="30000.00"/>	Enter Aug Leaves Amount: <input type="text" value="1"/>	Enter Aug PT Amount: <input type="text" value="200.00"/>	Paid Aug Salary: <input type="text" value="28800.00"/>
Enter Sep Salary Amount: <input type="text" value="30000.00"/>	Enter Sep Leaves Amount: <input type="text" value="2"/>	Enter Sep PT Amount: <input type="text" value="200.00"/>	Paid Sep Salary: <input type="text" value="27800.00"/>
Enter Oct Salary Amount: <input type="text" value="30000.00"/>	Enter Oct Leaves Amount: <input type="text" value="4"/>	Enter Oct PT Amount: <input type="text" value="200.00"/>	Paid Oct Salary: <input type="text" value="25800.00"/>
Enter Nov Salary Amount: <input type="text" value="30000.00"/>	Enter Nov Leaves Amount: <input type="text" value="2"/>	Enter Nov PT Amount: <input type="text" value="200.00"/>	Paid Nov Salary: <input type="text" value="27800.00"/>
Enter Dec Salary Amount: <input type="text" value="30000.00"/>	Enter Dec Leaves Amount: <input type="text" value="1"/>	Enter Dec PT Amount: <input type="text" value="200.00"/>	Paid Dec Salary: <input type="text" value="28800.00"/>

Employee Full Name: Raja Shekar
Employee ID: 31
Employee Phone Number: 9703971577
Employee Email: raj@gmail.com

Employee Department: CSE
Employee Expience: 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