

1. **\*\*Area of a Square\*\***

Write a program that takes the side length of a square as input and prints its area.

2. **\*\*Area of a Rectangle\*\***

Input width and height. Calculate the area.

3. **\*\*Area of a Circle\*\***

Input radius. Use  $\pi = 3.14$  to find the area.

4. **\*\*Area of a Triangle (Base  $\times$  Height)\*\***

Input base and height; find the area.

5. **\*\*Area of a Parallelogram\*\***

Input base and vertical height.

6. **\*\*Area of a Rhombus\*\***

Input diagonals  $d_1$  and  $d_2$ .

7. **\*\*Area of a Trapezium\*\***

Input parallel sides  $a$ ,  $b$  and height  $h$ .

8. **\*\*Area of a Isosceles Triangle\*\***

Input equal sides and base; use suitable formula.

9. **\*\*Area of a Right-angled Triangle\*\***

Input perpendicular and base.

10. **\*\*Area of a Circle (User chooses  $\pi$ )\*\***

Ask user: "Enter  $\pi$  as 3.14 or 22/7", then compute.

11. **\*\*Menu-Driven Area Calculator\*\***

Show menu of shapes; compute area based on user choice.

12. **\*\*Area of Circle with Math Library\*\***

Use `math.pi` instead of constant 3.14.

13. **\*\*Calculate Cost Based on Area\*\***

A painter charges ₹10 per sq.ft; find total cost for a rectangular wall.

14. **\*\*Garden Plot Area\*\***

A rectangular garden has a circular fountain cut out in the center. Find the remaining area.

15. **\*\*Room Flooring Calculator\*\***

Given room dimensions and tile area, find number of tiles needed.

16. \*\*Area of Polygon (User enters number of sides & side length)\*\*

Use formula for regular polygon.

17. \*\*Land Area Converter\*\*

Input land dimensions in meters; output area in sq.m, sq.ft, and acres.

21. \*\*Area of Sector of a Circle\*\*

Input radius and angle (in degrees or radians).

22. \*\*Paint Area Calculator\*\*

Calculate wall area excluding windows and doors.

23. \*\*Area of Oval (Ellipse)\*\*

Input two radii a and b; area =  $\pi ab$ .

24. \*\*Area of a Kite\*\*

Use diagonal-based formula.

25. \*\*Area of Triangle using Heron's Formula\*\*

Input 3 sides and compute area.

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1. \*\*Celsius to Fahrenheit Converter\*\*

Input temperature in °C and convert to °F.

2. \*\*Kilometers to Meters & Centimeters\*\*

Input distance in km; display meters and centimeters.

3. \*\*Minutes to Hours\*\*

Input total minutes; convert into hours and remaining minutes.

4. \*\*Grams to Kilograms\*\*

Convert given weight in grams to kilograms.

5. \*\*Meters to Feet\*\*

Convert given length in meters to feet.

6. \*\*Liters to Milliliters\*\*

Convert liquid quantity from L to mL.

7. \*\*Fahrenheit to Kelvin\*\*

Convert using formula  $K = (F - 32) \times 5/9 + 273.15$ .

8. \*\*Rupees to Paise\*\*

Convert rupees to paise.

9. \*\*Days to Weeks and Days\*\*

Input number of days; convert to weeks + extra days.

10. \*\*Simple Speed Conversion\*\*

Convert speed from km/h to m/s.

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