

**PROJECT TITLE :- BY USING THE “C” PROGRAMMING FINDING
THE APPLICATION LEVEL GEOMETRIC FIGURES AREA AND VOLUME
AND THE ELECTRICAL ELEMENTS POWER DISSIPATION & ENERGY
CONSUMPTION(RESISTOR, INDUCTOR AND CAPACITOR).**

INTRIDUCTION : The geometric figures like triangle, circle, square, rectangle parallelogram trapezium, total surface area of cone and the curved surface area of cone areas and as well as volumes. By using the appropriate formulas of the above geometric figures given.

And also the electrical elements like resistor, capacitor and inductor

For the above elements finding the power dissipation in resistor and energy consumption in the inductor and as well as capacitor by using the “c” language.

Note:

The foemulas for the above geometric figures and as well as electrical elements is given in the below algorithm.

And the program flow is given in the flow chart.

ALGORITHM :-

STEP(1) start

STEP(2) output 1 ---- Area of circle

2 ---- Area of triangle

3 ---- Area of square

4 ---- Area of rectangle

5 ---- Area of parallelogram

6 ---- Area of trapezium

7 ---- Area of rhombus

8 ---- Area of total surface area of cone

9 ---- Area of curved surface area of cone

10 – Volume of sphere

11 – Volume of cube

12—Volume of cone

13 – Volume of cylinder

14 – Volume of cuboid

15 – POWER DISSIPATED IN RESISTANCE

16 – ENERGY STORED IN INDUCTOR

17 – ENERGY STORED IN CAPACITOR

STEP(3) Enter your switch choice

STEP(4) Case 1: $a = \pi * r * r$ or Case 2: $a = 1.0/2.0 * b * h$ or Case 3: $a = s * s$ or

Case 4: $a = l * b$ or Case 5: $a = b * h$ Case 6: $a = 1.0/2.0 * (a+b) * h$ or Case 7: $a = d * d/2$ or

Case 8: $a = \pi * r * (r+l)$ or Case 9: $a = \pi * r * l$ or Case 10: $v = 4.0/3.0 * \pi * (r * r * r)$ or

Case 11: $v = l * l * l$ or Case 12: $v = \pi * (r * r) * h/3$ or Case 13: $v = \pi * r * r * h$ or

Case 14: $v = w * h * l$ or Case 15: $p = i * l * r$ or Case 16: $e = 1.0/2.0 * l * i * i$ or

Case 17: $e=1.0/2.0*c*v*v$

STEP(5) Stop

FLOW CHART :-

