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Remember to translate the algebra of the two formulas into the C language.

$$\text{Perimeter of the polygon} = 2n R \sin \frac{\pi}{n} \qquad \text{Area} = \frac{1}{2} n R^2 \sin \frac{2\pi}{n}$$

VIEWING OUTPUT

When you run the program, the whole thing is going to lab3.txt.
Open that file to see your output.

DEFINED OUTPUT APPEARANCE (using lab3sample.out):

Your Name. Lab 3.

| Radius | Number Of Sides | Perimeter Of Polygon | Area Of Polygon |
|--------|--------------------|-------------------------|--------------------|
| ----- | ----- | ----- | ----- |
| 12.60 | 24.00 | 78.9422 | 493.0813 |
| 5.60 | 8.00 | 34.2884 | 88.6995 |
| 7.85 | 12.00 | 48.7615 | 184.8675 |

DATA FILE:

There are two data files:

1. lab3sample.dat – Use it to verify the correctness of your program
2. lab3.dat

PREPARE YOUR FILE FOR GRADING:

Make sure your program has been corrected to use **lab3.dat** and has been re-compiled.

When all is well and correct, type: **script StudentName_lab3.txt**

[Script will keep a log of your session.]

At the prompt, type: **cat lab3.c** to display the code in your session.

At the prompt, type: **a.out** to run the program

After the program run is complete,
type: **exit** to leave the script session

Turn in your completed session:

Go to SacCT and turn in your session (StudentName_lab3.txt).