Eric Thomas
Description of the problem
Alex needs a tool to calculate essential properties of a circle based on its radius. Specifically, the
program should compute two key measurements circumference of a circle and area of a circle
The name of the person you are solving it for
Alex
A reference of where you looked up the calculation for the problem
https://www.youtube.com/watch?v=02YXycFH_kU&ab_channel=MathwithMr.J
Algorithm:
Start the program.
Input: Ask Alex to input the radius of the circle.
Display a message: "Please enter the radius of the circle (positive number)."
Validation:
If the radius is less than or equal to 0, display an error message:
"The radius must be a positive number. Please try again."
Stop the algorithm if invalid input is provided.
Calculation:
Area calculation:

Use the formula $A=\pi r^2$, where π is a constant value (approximately 3.14).

Circumference calculation:

Use the formula $C=2\pi r$

Output: Display the calculated area and circumference.

For the area, display: "The area of the circle with radius r is A."

For the circumference, display: "The circumference of the circle with radius r is C."

End the program.

Test Case	Input Radius	Expected Area Output	Expected Circumference Output
1	1.0	3.14	6.28
2	2.0	12.57	12.57
3	3.5	38.48	21.99
4	0.0	Invalid Input	Invalid Input
5	-5.0	Invalid Input	Invalid Input