Homework 01

1. Write a Python program that asks for the radius of a circle and the side length of a square. The program should calculate and compare their areas, then display which shape has the larger area and the difference between the two areas.

2. Write a Python program that takes an integer input from the user. If the integer is divisible by 3, the program should output the number. If it is not divisible by 3, the program should display the message "Error".

3. Write a Python program that prompts the user to input three numbers. The program should calculate the average of these numbers. If the average is greater than 40, the program should display the message "Yes". If the average is 100 or below, the program should display "No".

4. Write a Python program that computes an employee's net salary. The program should:
   - Subtract a 4% tax if the salary is less than 200,000.
   - Subtract a 6% tax for salaries between 200,000 to 500,000.
   - Subtract an 8% tax for salaries above 500,000.
   - Deduct an additional 2% for housing from all salaries.
   - Output the final net salary.

5. Write a Python program that prompts the user to enter a number. The program should then display the absolute value of that number.