NOT OPERATOR

Use Python or C to Solve

Bonus points for number of not(!) operators used: 5 points

1. **Check for Not Even But Prime Number: Points: 25**

   Print prime numbers from 2 to n that are not even numbers. Use not (!) operator. n is given as input.

2. **Armstrong: Points: 30**

   Write a program that takes a number as input and returns True if it is Armstrong and False otherwise. Use not (!) operator.

3. **Divisible Numbers: Points: 25**

   Write a program that takes x, y. Checks if x is divisible by y print True or else print False. Use not (!) operator.

4. **Array Palindrome: Points: 30**

   Given an array, print True if the array forms a palindrome. If not print False. Use not (!) operator and functions if needed.

5. **Array Anagram: Points: 35**

   Given two arrays, check if all the elements of the array1 is available in array2 including the repetition of elements. Use not (!) operator.

6. **Strong Password:** **Points: 40**

Given a string, check the password obeys the following constraints:

1 - The password should be at least 8 characters length.
2 - The password should contain at least one upper case letter.
3 - The password should contain at least one lower case letter.
4 - The password should contain at least one special character.
5 - The password should contain at least one number.

7. **Array Inversion:** **Points: 25**

Given an array of n elements, invert the elements using not (!) operator and display the array.

8. **Power of Two:** **Points: 30**

Given a number n, find if it the power product of 2. Use not (!) operator.

9. **Counting Set bits (1):** **Points: 40**

Given a decimal number, find the number of set bits, ie, number of 1s in its binary form. Use not (!) operator.

10. **Strong Number:** **Points: 30**

Given a number find if it is a strong number or not. Use not (!) operator.

11. **Convert to Decimal:** **Points: 50**

Given a binary number. Negate each bit of the number, then convert it to binary number and display it. Use not (!) operator.

12. Find Key in an Array: Points: 30

Given an array. Find index of the element in the array by using not (!) operator.

13. Find Missing Element in Array: Points: 30

Given array contains consecutively arranged element in ascending order or descending order. One element is missed in the arrangement. Your task is to find the missing element.

14. Sum of Two: Points: 25

Given an array of numbers, your task is to find the two numbers that adds up to a given number by using not (!) operator.

15. Middle Number Divisor: Points: 25

Given a five-digit number, your task is to find the middle element of the number and check if it is divisible by any other single digit number.