Lab Exam Question

Course Title: Structured Programming Language Laboratory

Course Code: CSE 1112

Time: 45 Minutes

Set B

Total Marks: 30

Task: Wonder Word Identifier (30 Marks)

A **wonder word** is defined as a word that:

- is a **palindrome** (reads the same forward and backward), and
- has a **length greater than 5 characters**.

Write a modular C program that reads a sentence and checks whether the sentence contains any **wonder word**, using the following functions:

- `void take_input(char str[])`: to take the full sentence input from the user.
- `int extract_words(char sentence[], char words[][20])`: to split the sentence into individual words.
- `int is_palindrome(char word[])`: to check whether a word is a palindrome.
- `void find_wonder_words(char words[], int count)`: to identify and print whether any wonder word exists.

Program Requirements:

- The palindrome check should be case-insensitive.
- Do **not** print the words; only print whether the sentence contains any wonder word.

Sample Input/Output

Sample Run

Input:
Enter a sentence: Anna went to see racecar and rotator and civic and deed
Output:
Wonder word found!

Sample Run

Input:
Enter a sentence: This sentence has no palindrome of required length
Output:
No wonder word found.