Birla Institute of Technology & Science, Pilani, K. K. BIRLA Goa Campus
Computer Programming (CS F111)
Second Semester 2017-2018
Lab-8 (Strings)

PreLab Exercise (Evaluative)

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Question #1 : Monday and Tuesday Batch (Lab Sections 1 to 6)

Given a String Str, display all palindromes and find the number of special palindrome substrings of size greater than 1.

Definitions: A Palindrome is a string that reads the same backwards as forward, e.g. madam
A Substring is called special palindrome substring if all the characters in the substring are same or only the middle character is different for odd length.
Example: "aabaa" and "aaa" are special palindromic substrings and "abcba" is not a special palindromic substring.

1. Sample INPUT and Output:
Enter a string
abab
The palindromes in the string are aba, bab
The special palindromic substrings are aba , bab

2. Sample INPUT and Output:
Enter a string
ababa
The palindromes in the string are aba, bab, aba, ababa
The special palindromic substrings are aba, bab, aba

3. Sample INPUT and Output:
Enter a string
abcba
The palindromes in the string are bcb, abcba
The special palindromic substrings are bcb