

```

1  /* AIM: WAP to check if the entered string is a palindrome or not.
2  Name: Salmani Asad Anwarul
3  UIN: 241A010
4  DIV: A
5  DEPTT.: AI&DS
6  ROLL-NO: 10
7  */
8  #include <stdio.h>
9
10 int main() {
11     char str[100];
12     int len = 0, i;
13
14     printf("Enter a string: ");
15     scanf("%s", str);
16
17     // Calculate the length of the string
18     while (str[len] != '\0') {
19         len++;
20     }
21
22     // Check if the string is a palindrome
23     for (i = 0; i < len / 2; i++) {
24         if (str[i] != str[len - i - 1]) {
25             printf("The string is not a palindrome.\n");
26             return 0;
27         }
28     }
29
30     printf("The string is a palindrome.\n");
31     return 0;
32 }
33
34
35
36 /*
37 OUTPUT
38 Enter a string: LEVEL
39 The string is a palindrome.
40
41 Enter a string: RADAR
42 The string is a palindrome.
43
44
45 Enter a string: ARROW
46 The string is not a palindrome.
47
48
49 */
50

```