```c
/*
 Exp : 8 (Task 2)
 Title : WAP to check if the entered string is palindrome or not
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*/
#include <stdio.h>
#include <string.h>
int main() {
 char str[100], reverse[100];
 int i, length, isPalindrome = 1;
 printf("Enter a string: ");
 fgets(str, sizeof(str), stdin);
 length = strlen(str);
 if (str[length - 1] == '\n') {
 str[length - 1] = '\0';
 length--;
 }
 for (i = 0; i < length / 2; i++) {
 if (str[i] != str[length - i - 1]) {
 isPalindrome = 0;
 break;
 }
 }
 if (isPalindrome) {
 printf("The string is a palindrome.\n");
 } else {
 printf("The string is not a palindrome.\n");
 }
 return 0;
}
/*
 ****OUTPUT:****
1.
Enter a string: madam
The string is a palindrome.
2.
Enter a string: hello
The string is not a palindrome.
*/
```