RUNGTA INTERNATIONAL
SKILL UNIVERSITY

PROGRAMMING FUNDAMENTALS OF C

PROJECT PFC

Palindrome Check Using String Reverse

PRESENTED BY:
ANAS AHMAD

PRESENTED TO:
NAINA MAM

Agenda

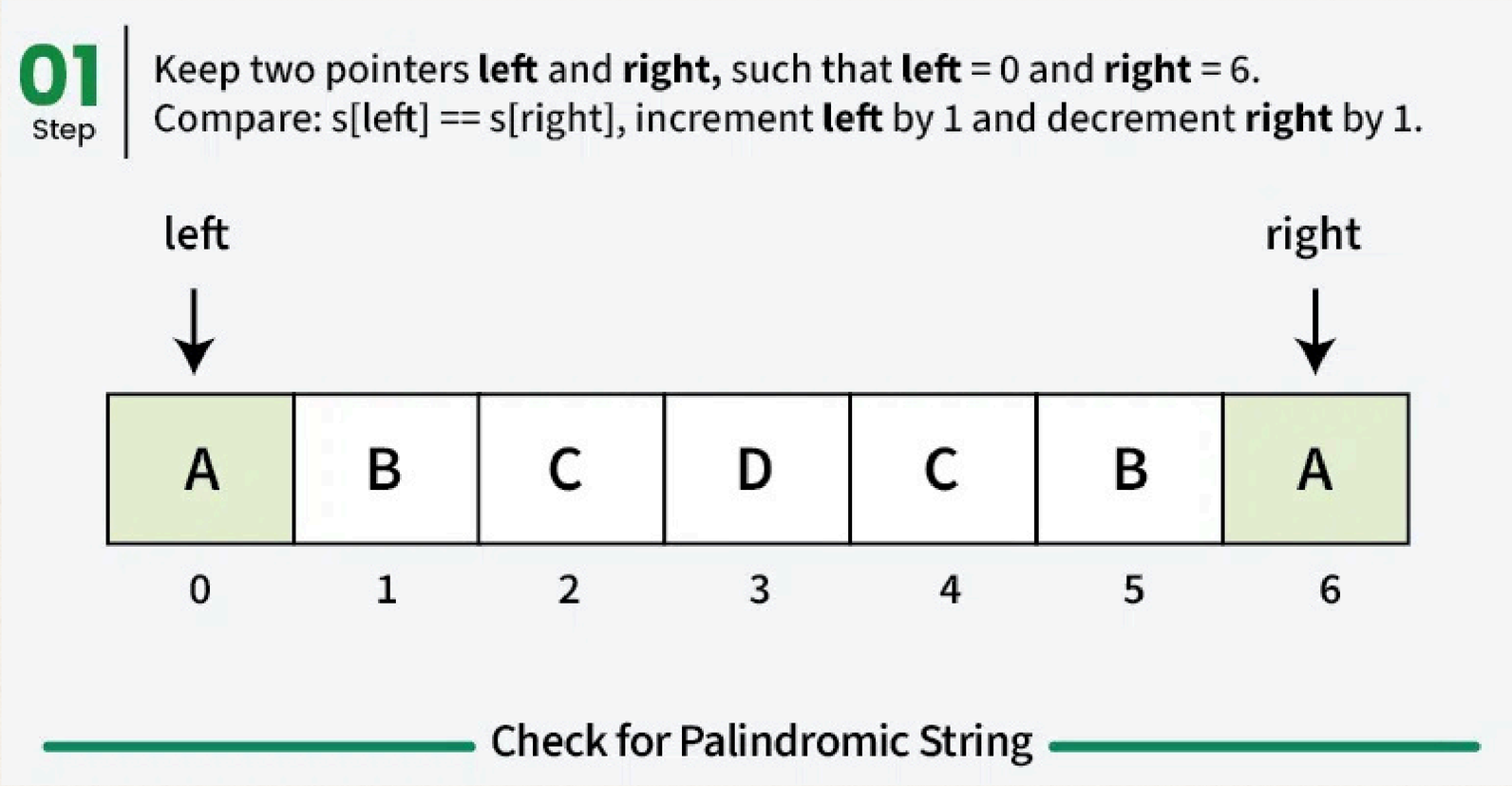
INTRODUCTION

01 A palindrome is a string that reads the same forward and backward.

02 This project is based on checking whether a given string is a palindrome.

03 The program is written in C using string operations.

04 It helps in understanding functions and string handling in C.



TECHNOLOGY USED

TOOLS AND TECHNOLOGY USED IN PROJECT :-

C

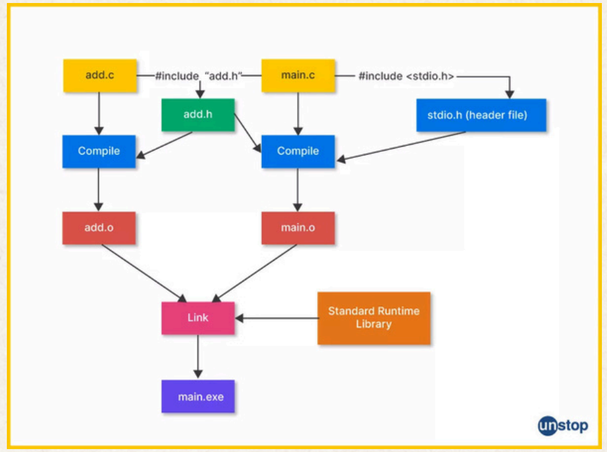
PROGRAMMING LANGUAGE

GCC

Compiler: GCC

GITHUB

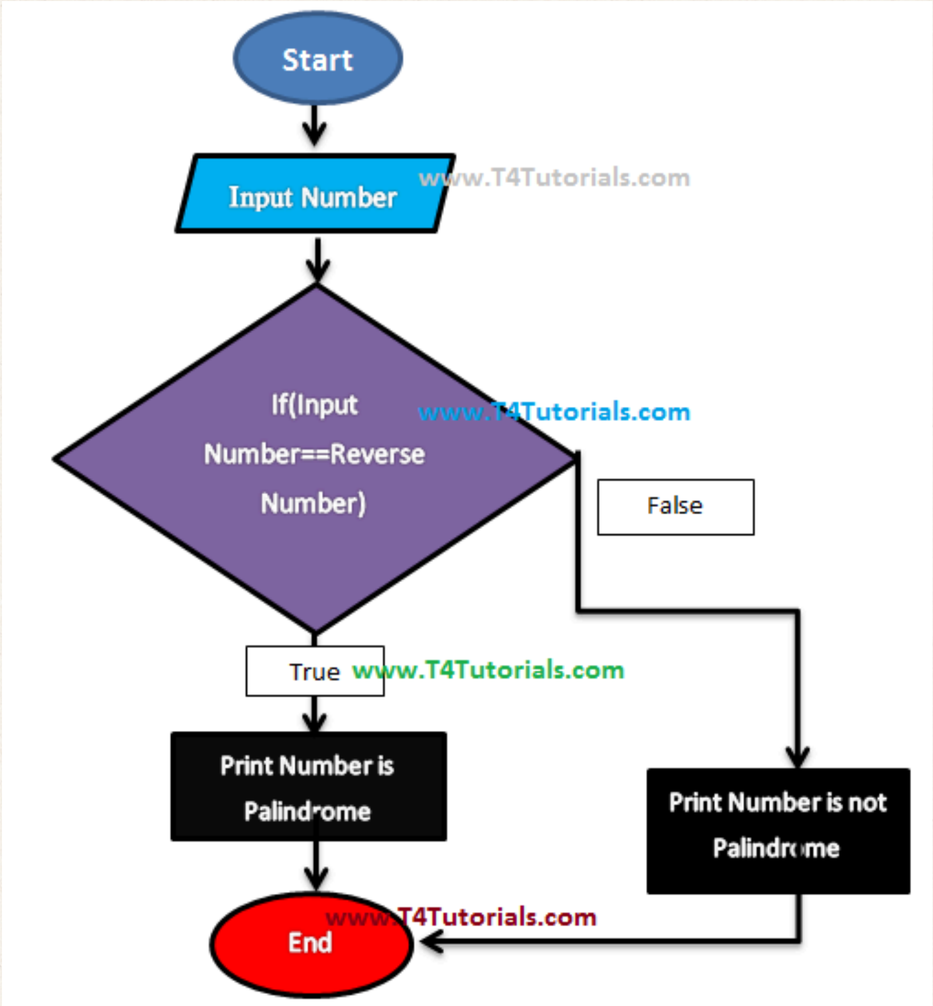
To store and share project



Header Files Used:

- stdio.h for input and output
- string.h for string functions

Platform: Windows

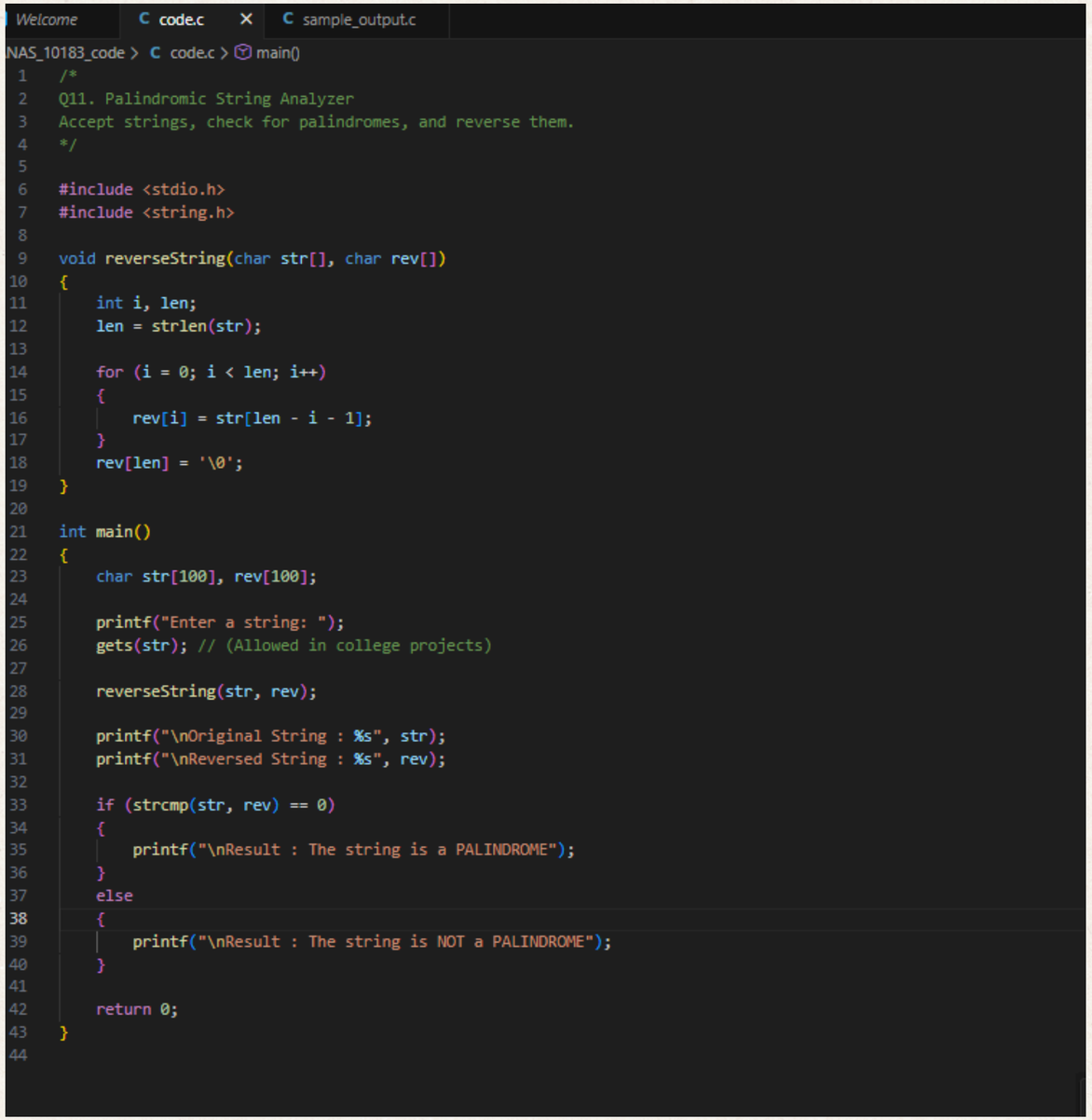


PROJECT WORKING

- The user enters a string.
- The string is passed to a user-defined function.
- The function reverses the string.
- The reversed string is compared with the original string.
- If both strings are same, it is a palindrome.
- Otherwise, it is not a palindrome.

PROGRAM CODE

- The program uses a user-defined function to reverse the string.
- strlen() is used to find the length of the string.
- A loop is used to reverse the string character by character.
- The main function compares both strings and prints the result.



OUTPUT

- Palindrome string

```
Enter a string: ANAS

Original String : ANAS
Reversed String : SANA
Result : The string is NOT a PALINDROME * Terminal will be reused by tasks, press any key to close it.
```

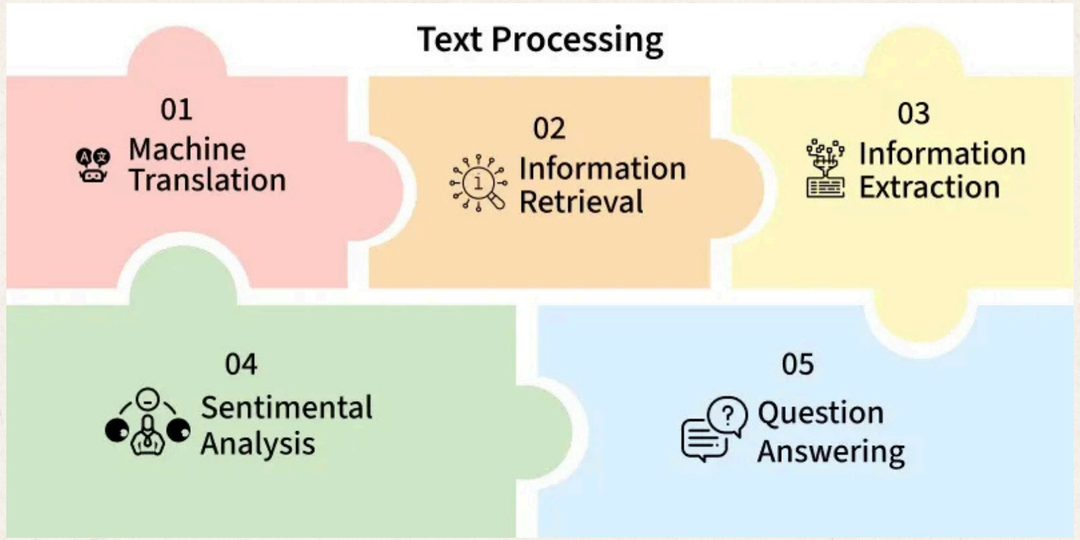
- Not a Palindrome string

```
Enter a string: madam

Original String : madam
Reversed String : madam
Result : The string is a PALINDROME * Terminal will be reused by tasks, press any key to close it.
```

APPLICATION

- Used in text processing programs.
- Useful in data validation.
- Applied in pattern recognition problems.
- Helps in learning string manipulation concepts.



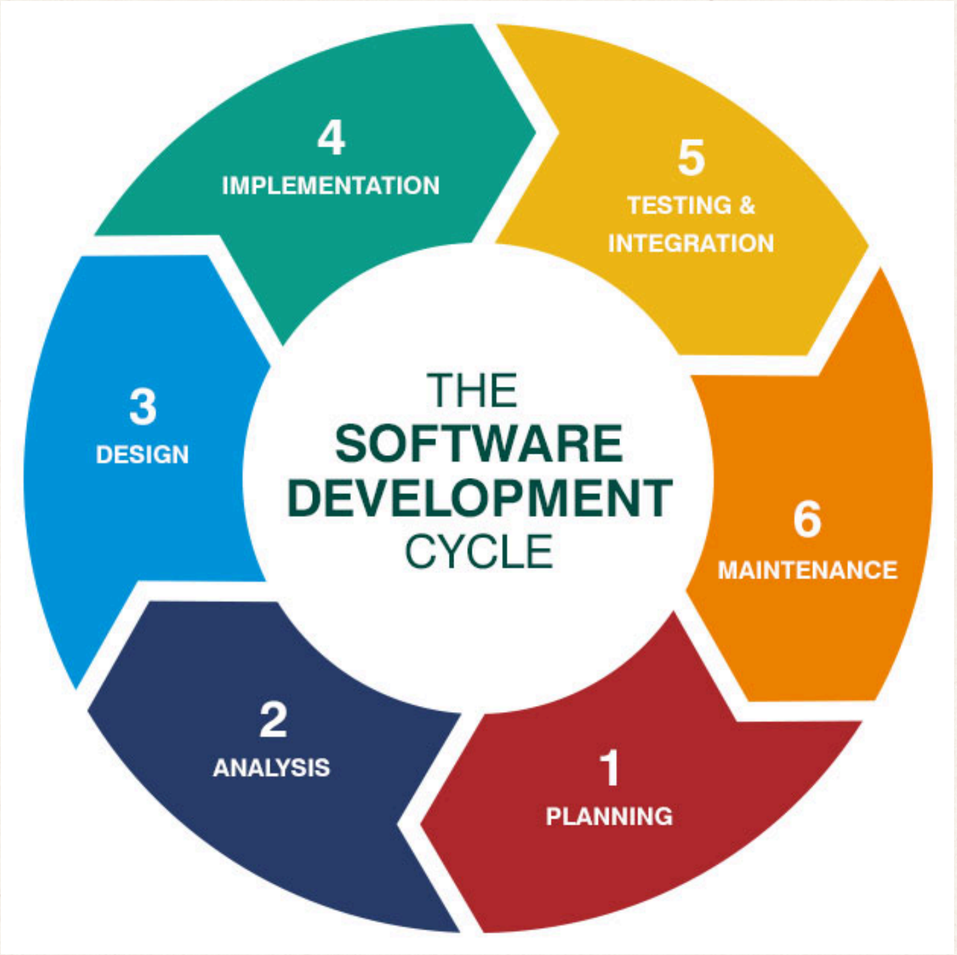
ADVANTAGES & FUTURE SCOPE

Advantages

- Easy to understand and implement.
- Uses simple logic and functions.
- Improves knowledge of strings in C.

Future Scope

- Can be extended for numbers and sentences.
- Can ignore spaces and special characters.
- Can be implemented in other programming languages.



CONCLUSION

- THE PALINDROME CHECKING PROGRAM IS SUCCESSFULLY IMPLEMENTED.
- IT USES USER-DEFINED FUNCTIONS AND STRING OPERATIONS.
- THE PROJECT IMPROVES UNDERSTANDING OF C PROGRAMMING FUNDAMENTALS.
- THE OBJECTIVE OF THE PROJECT IS ACHIEVED.