DEVELOPMENT AND IMPLEMENTATION OF A NUMBER SYSTEM-BASE TO BASE CONVERSION PROGRAM IN C

INTRODUCTION TO BASE CONVERSION

In this presentation, we will explore the **development** and **implementation** of a base conversion program in **C**. Understanding base conversion is crucial for various applications in computer science, including data representation and algorithm design. We will discuss the fundamental concepts and the programming approach taken.

UNDERSTANDING NUMBER BASES

Number bases are systems for representing numbers using a set of digits. The most common bases are **binary (base 2)**, **decimal (base 10)**, and **hexadecimal (base 16)**. Each base has unique properties and applications, particularly in computing. This slide will cover how these bases differ and their significance.

Program Requirements

Before implementing the base conversion program, we need to define the **requirements**. The program should accept a number in one base and convert it to another base. Key features include **input validation**, support for various bases, and **error handling**. This ensures robust functionality and user-friendly experience.

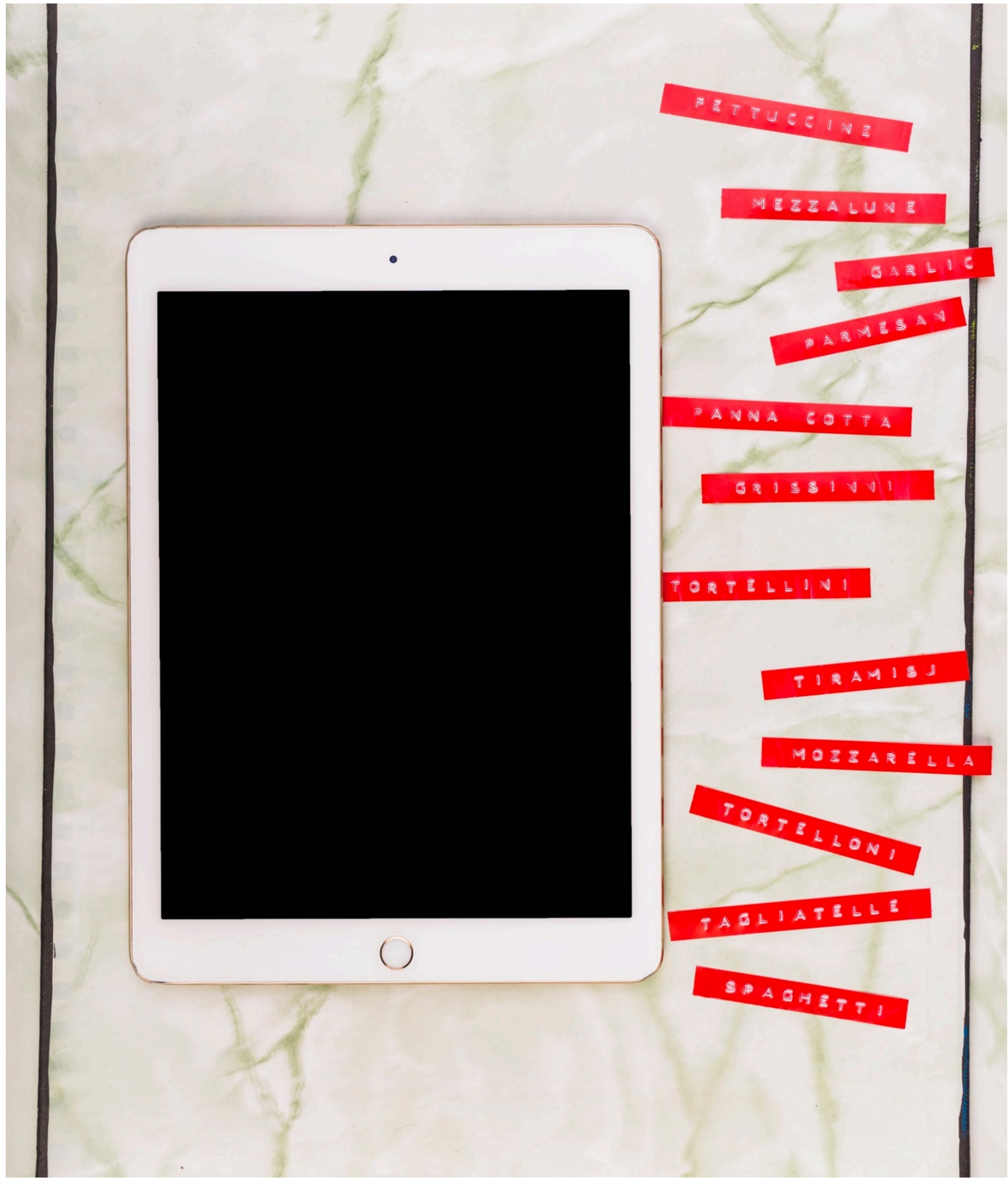
IMPLEMENTATION STEPS

The implementation of the base conversion program involves several **steps**: defining the input and output formats, creating functions for conversion, and conducting **testing**. Each function must handle specific base calculations efficiently. We will outline the key functions and their roles in the overall program structure.

#2
Interfaces
• Personal logs required.
TO DO LIST!
APP (double)
Yeah, again!
Contact the client who reported an 404 error ASAP
LOGO
IMAGE?

TESTING AND VALIDATION

Testing is critical to ensure that the base conversion program functions correctly. We will conduct **unit tests** to validate each function, followed by **integration tests** to assess overall performance. This process helps identify bugs and ensures that the program meets the specified requirements.



CONCLUSION AND FUTURE WORK

In conclusion, we have successfully developed a base conversion program in C. The project not only enhances our understanding of number bases but also improves programming skills. Future work may involve optimizing the code and expanding functionality to support more complex conversions.

Thanks!

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