**Number System Converter**

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# XI – Raman

**SYNOPSIS**

* The Problem at hand

Developers face the issue of wasting valuable time converting from one unit system to another. This program aims to provide a viable solution to increase productivity of developers.

* Why was this topic chosen ?

This topic was chosen to help developers be more efficient while working by providing easy to use , quick access , portable tools to quickly convert a number from one number system to another.

* Objective and Scope of the Project

Objective: quick conversion of a number from one number system to another.

Scope: A utility light weight program for developers and students to quickly convert from one number system to another to speed up the task at hand.

* Methodology

1. Used Lists to convert from one number system to another
2. Used Separate Class to hold the conversion logic
3. Call Class at runtime
4. Main Function Requires Conversion class object
5. Main Function executed at runtime
6. GUI Library tkinter
7. Used tkinter widgets label , entry , text , option menu.
8. Used tkinter grid position system
9. Used ASCII charter chart for hexadecimal conversion
10. Used built in String functions

* Hardware and Software Used
* Operating System: Windows 8/10/11 , Mac OS High Sierra , Linux
* Coding Language: Python
* Interpreter : Python (3.9+)
* Development Environment: Python 3.9
* IDE: PyCharm Community Edition