



COMPUTER SCIENCE & ENGINEERING

HYBRID CALCULATOR

SUBMITTED TO-

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ABSTRACT

The purpose of this project is in fulfillment of the requirements of user using the hybrid calculator. The design and development of this Hybrid Calculator System provides more efficient way to the user in different manner because it contains many application which attract the user to use this application. The programming language used to develop this project is Python.

The domain “Hybrid Calculator”. It can prevent to open different application for different purposes and also save time, such as it has scientific calculator, currency converter, temperature converter, length, and weight converter.

ACKNOWLEDGEMENTS

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With gratitude,

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INTRODUCTION

The Hybrid Calculator Interface is targeted to the combined as many application we used in our daily lives. This system acts as a standard interface between the user and the calculator. By using this application any user who wants different application in one form and easy to use.

Project Analysis-

This application contains following modules:

1. Currency Converter
2. Temperature Converter
3. Length Converter
4. Scientific Calculator
5. Weight Converter

1. Currency Converter

In order to convert one currency into another, a user enters an amount of money (e.g. '1000') and chooses the currency he/she wishes to check the monetary value of (e.g. 'United States Dollar'). After that, the user selects one, or sometimes several other currencies, he/she would like to see the result in. The application software then calculates and displays the corresponding amount of money.

- Estimating the value of goods and services.
- Basic accounting and invoicing.
- Preparing financial plans and reports

2. Temperature Converter

The Celsius scale is the most used temperature unit in the world. However, a number of countries, particularly the United States still use the Fahrenheit scale. If you want a quick tool to convert between these two units of temperature, then this tool is for you

- Depending on the two temperature scales you are converting between.

3. Length Converter

There are several measurement units today that you might need to convert easily and quickly. One of which is a length conversion, which could be either short length measurements or distance measurements.

- Select the unit you want to convert from (e.g. Meter).
- Input the value you want to calculate, then select the unit you will be converting into (e.g. Kilometer)

4. Scientific Calculator

The purpose of this project to design a scientific calculator. The calculator should include some basic function as well as advanced function such as sine, cosine, and tangent function. We designed an easy to use calculator by using Tkinter and Python programming.

5. Weight Converter

Weighing stuff has become a part of our lives. When we are exercising regularly, we weigh ourselves to check how much weight we lost or gained. Whenever we buy something from the market like drinks, food that needs to be cooked, etc. are available in grams or liters and sometimes we want in other unit from this application you can easily convert weight units.

OBJECTIVES

The application will be extremely beneficial for the user intending to use and operate their calculation.

“Hybrid Calculator” is a simple application, which is especially generated and designed to calculate and convert the values.

Following are the major objectives behind the new proposed system:

- We try not to make it complicated easy user friendly.
- All sorts of scientific calculations can be performed.
- It increases efficiency and saves the time.
- Includes all the trigonometric functions.
- Values can be easily calculated and converted into any metric system.

Material and Methods

- **We used Python in this application.**
- **Math module is used to access mathematical functions.**
- **urllib.request defines function and classes.**

RESULTS

The Hybrid Calculator Application System is a user-friendly platform which allows all the user to perform specific calculation tasks in the interference like – currency converter, temperature converter, length converter, scientific calculator, and weight converter. It is a most easy application for user.

REFERENCES

- **GeeksforGeeks**
- **Tutorial Point**
- **Exchangerate-api.com**

Github Link:-

<https://github.com/yash662001garg/Hybrid-calculator>