Project Overview: Currency Converter

Introduction:

The Currency Converter project aims to develop a simple command-line application that allows users to convert Indian Rupees (INR) into various foreign currencies. The program provides a user-friendly interface to select the desired currency conversion and displays the converted amount.

Objective:

The primary objective of this project is to provide users with a convenient tool for converting INR into other major currencies accurately and efficiently.

Features:

Menu-driven interface: Users can select from a list of predefined currency conversion options. The program provides clear instructions and prompts, making it easy for users to interact with.

Conversion rates: Conversion rates for different currencies are predefined and accurately reflect current market values.

Error handling: The program validates user inputs and displays appropriate error messages for invalid choices or inputs.

Implementation:

Language: The project is implemented in the C programming language.

Arrays: Arrays are used to store conversion rates and currency names, allowing for easy retrieval and manipulation of data.

Functions: Modular functions are utilized to organize code logic, improve code readability, and facilitate code reuse.

Conclusion:

The Currency Converter project provides a valuable utility for users who need to perform currency conversions quickly and accurately. With its simple yet effective design, the program serves as a useful tool for individuals and businesses alike.

Execution Instructions

1. Define an array to store conversion rates for different currencies.

2. Define an array to store currency names.

3. Define a function to display menu options:

   3.1. Print menu options for different currency conversions.

4. Define a function to perform currency conversion:

   4.1. Take user input for the amount of money to be converted.

   4.2. Check if the user's choice is within the valid range (1 to 10):

      4.2.1. If the choice is valid:

         - 4.2.1.1. Retrieve the conversion rate corresponding to the user's choice.
         - 4.2.1.2. Calculate the converted amount by multiplying the input amount with the conversion rate.
         - 4.2.1.3. Print the converted amount and the corresponding currency.

      4.2.2. If the choice is invalid:

         - 4.2.2.1. Print an error message.

5. Define the main function:

   5.1. Print the title of the currency converter program.

   5.2. Print a brief description of the program.

   5.3. Display the menu options using the menu function.

   5.4. Take user input for their choice of currency conversion.

   5.5. Call the function to perform currency conversion based on the user's choice.

6. End of program/code.