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**PROBLEM:**

Need of a currency-converter with robust exchange rates integration,providing users with seamless and accurate currency conversion functionality.

**SOLUTION:**

Develop a Perl script that converts currency amounts based on real-time exchange rates fetched from an API to deliver seamless and precise currency conversion.

**FEATURES:**

1. Real-Time Exchange Rates: Utilizes a reliable API to fetch and display up-to-date exchange rates for accurate currency conversion.
2. Multi-Currency Support: Allows users to convert between a wide range of currencies, accommodating diverse international currency needs.
3. Error Handling: Implements robust error handling mechanisms to gracefully manage invalid input, API failures, or network issues.
4. Customizable Conversion: Offers options for users to customize conversion settings, such as rounding decimals or selecting specific currencies.
5. Currency Trends: Provides insights into currency trends and fluctuations over time to help users make informed decisions.

**CODE:**

use LWP::Simple;

sub convert\_currency {

($amount, $from\_currency, $to\_currency) = @\_;

$url = "https://api.exchangerate-api.com/v4/latest/$from\_currency";

$response = get($url);

if ($response) {

($rate) = $response =~ /"$to\_currency":(\d+\.\d+)/;

if ($rate) {

$converted\_amount = $amount \* $rate;

return $converted\_amount;

} else {

print "Currency $to\_currency not supported.\n";

return undef;

}

} else {

print "Failed to retrieve exchange rate.\n";

return undef;

}

}

sub main {

print "Enter the amount to convert: ";

$amount = <>;

chomp($amount);

print "Enter the currency to convert from (e.g., USD): ";

$from\_currency = <>;

chomp($from\_currency);

print "Enter the currency to convert to (e.g., EUR): ";

$to\_currency = <>;

chomp($to\_currency);

$converted\_amount = convert\_currency($amount, $from\_currency, $to\_currency);

if (defined $converted\_amount) {

printf "%.2f %s is equivalent to %.2f %s\n", $amount, $from\_currency, $converted\_amount, $to\_currency;

}

}

main();

**Output:**

