CONVERTER

```
import java.util.Scanner;

public class ATM {
    public void currencyConversion() {
        // Step 1: Allow the user to select the base currency and the target currency
        System.out.println("Please select the base currency (e.g., USD, EUR, GBP):");
        Scanner scanner = new Scanner(System.in);
        String baseCurrency = scanner.nextLine().toUpperCase();

        System.out.println("Please select the target currency (e.g., USD, EUR, GBP):");
        String targetCurrency = scanner.nextLine().toUpperCase();

        // Step 2: Fetch real-time exchange rates from a reliable API (e.g., Open
Exchange Rates)
        // For simplicity, let's assume we have a method getExchangeRate() that
returns the exchange rate

        double exchangeRate = getExchangeRate(baseCurrency, targetCurrency);

        if (exchangeRate == 0) {
            System.out.println("Failed to fetch exchange rate. Please try again later.");
            return;
        }

        // Step 3: Take input from the user for the amount they want to convert
        System.out.println("Enter the amount in " + baseCurrency + ":");
        double amount = scanner.nextDouble();

        // Step 4: Convert the input amount from the base currency to the target
currency
        double convertedAmount = amount * exchangeRate;

        // Step 5: Display the converted amount and the target currency symbol to the
user
        System.out.println("Converted amount: " + convertedAmount + " " +
targetCurrency);
    }

    // Mock method to simulate fetching exchange rate
    private double getExchangeRate(String baseCurrency, String targetCurrency) {
        // Mock implementation, replace with actual API call
        // For simplicity, let's assume exchange rate is 1 for same currencies
        if (baseCurrency.equals(targetCurrency)) {
            return 1.0;
        }
        // You would typically fetch the exchange rate from an API here
        // For simplicity, returning a random value between 0.5 and 2.0
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        return 0.5 + Math.random() * 1.5;
    }

    public static void main(String[] args) {
        ATM atm = new ATM();
        atm.currencyConversion();
    }
}
```

ReplyForward