Pseudocode

```
MAIN PROGRAM:
    Initialize accounts_list as empty
    Initialize exchange_rates with PHP as base currency

    LOOP
        Display Main Menu
        Prompt user for option

        IF option == 1:
            CALL register_account()
        ELSE IF option == 2:
            CALL deposit_amount()
        ELSE IF option == 3:
            CALL withdraw_amount()
        ELSE IF option == 4:
            CALL currency_exchange()
        ELSE IF option == 5:
            CALL record_exchange_rate()
        ELSE IF option == 6:
            CALL show_interest_amount()
        ELSE:
            Display "Invalid option"

        Prompt user "Back to Main Menu? (Y/N)"
        IF user_input == "N":
            BREAK LOOP
END PROGRAM
```

Function Pseudocode and Purpose

1. register_account()

Purpose: Register a new user account with a name and initial balance.

```
Function register_account():
    Prompt for Account Name
    Initialize account balance to 0
    Store account in accounts_list
    Display "Account registered successfully"
End Function
```

2. `deposit_amount()`

Purpose: Add funds to a user's bank account.

```
Function deposit_amount():
    Prompt for Account Name
    IF account exists:
        Display Current Balance
        Prompt for Deposit Amount
        Add Deposit Amount to Current Balance
        Update account balance
        Display Updated Balance
    ELSE:
        Display "Account not found"
End Function
```

3. `withdraw_amount()`

Purpose: Withdraw funds from a user's bank account.

```
Function withdraw_amount():
    Prompt for Account Name
    IF account exists:
        Display Current Balance
        Prompt for Withdraw Amount
        IF Withdraw Amount <= Current Balance:
            Subtract Withdraw Amount from Current Balance
            Update account balance
            Display Updated Balance
```

```
        ELSE:
            Display "Insufficient funds"
        ELSE:
            Display "Account not found"
End Function
```

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4. `record_exchange_rate()`

Purpose: Record or update the exchange rate of foreign currencies relative to PHP.

```
Function record_exchange_rate():
    Display list of currencies
    Prompt user to select currency
    Prompt user for exchange rate
    Update exchange_rates[currency]
    Display "Exchange rate updated"
End Function
```

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5. `currency_exchange()`

Purpose: Convert amount between different currencies using exchange rates.

```
Function currency_exchange():
    Display list of source currencies
    Prompt user for source currency
    Prompt user for source amount
    Display list of target currencies
    Prompt user for target currency
    Calculate exchanged amount using exchange_rates
    Display exchanged amount
End Function
```

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6. `show_interest_amount()`

Purpose: Compute and display expected daily interest for a given number of days.

```
Function show_interest_amount():
    Prompt for Account Name
    IF account exists:
        Display Current Balance and Annual Interest Rate (5%)
        Prompt for number of days
        FOR day from 1 to number_of_days:
            daily_interest = (Current Balance) * (5% / 365)
            Current Balance += daily_interest
            Display day, daily_interest, Current Balance
    ELSE:
        Display "Account not found"
End Function
```

Additional Notes

- `accounts_list` can be an array of objects (or structs/records) with fields: `name`, `balance`, `currency`.

- `exchange_rates` can be a dictionary/map with currency codes as keys.

- All functions handle invalid inputs and non-existing accounts gracefully for good **user experience**.