CURRENCY CONVERTER

```
package interniiiii;
import java.util.Scanner;
public class Currencyconverter {
public static void main(String[] args) {
Scanner scanner = new Scanner(System.in);
 System.out.println("Welcome to Currency Converter!");
 while (true) {
 System.out.println("Select the base currency:");
 System.out.println("1. USD (United States Dollar)");
 System.out.println("2. EUR (Euro)");
 System.out.println("3. INR (Indian Rupee)");
 System.out.println("4. YEN (Japanese Yen)");
 System.out.println("5. CAD (Canadian Dollar)");
 System.out.println("6. YUAN (Chinese Yuan)");
 System.out.println("0. Exit");
 int baseCurrencyChoice = getChoice(scanner);
 if (baseCurrencyChoice == 0) {
break;
 int targetCurrencyChoice = getTargetCurrencyChoice(scanner);
 double amount = getAmount(scanner);
double convertedAmount = convertCurrency(baseCurrencyChoice,
targetCurrencyChoice, amount);
 System.out.println("Converted amount: " + convertedAmount);
 System.out.print("Do you want to convert another amount? (yes/no): ");
 String response = scanner.next().toLowerCase();
 if (!response.equals("yes")) {
break;
 }
```

```
}
 System.out.println("Thank you for using Currency Converter!");
 scanner.close();
private static int getChoice(Scanner scanner) {
 int choice;
while (true) {
System.out.print("Enter your choice: ");
 if (scanner.hasNextInt()) {
choice = scanner.nextInt();
if (choice >= 0 && choice <= 6) {
break;
 } else {
 scanner.next(); // Consume invalid input
 System.out.println("Invalid choice. Please select a valid option.");
 return choice;
private static int getTargetCurrencyChoice(Scanner scanner) {
 int targetChoice;
while (true) {
 System.out.println("Select the target currency:");
 System.out.println("1. USD (United States Dollar)");
 System.out.println("2. EUR (Euro)");
 System.out.println("3. INR (Indian Rupee)");
 System.out.println("4. YEN (Japanese Yen)");
 System.out.println("5. CAD (Canadian Dollar)");
 System.out.println("6. YUAN (Chinese Yuan)");
 System.out.print("Enter your choice: ");
 if (scanner.hasNextInt()) {
 targetChoice = scanner.nextInt();
if (targetChoice >= 1 && targetChoice <= 6) {</pre>
break;
 } else {
 scanner.next(); // Consume invalid input
System.out.println("Invalid choice. Please select a valid target
currency.");
 return targetChoice;
 private static double getAmount(Scanner scanner) {
```

```
double amount;
while (true) {
System.out.print("Enter the amount to convert: ");
if (scanner.hasNextDouble()) {
amount = scanner.nextDouble();
if (amount >= 0) {
break;
} else {
scanner.next(); // Consume invalid input
System.out.println("Invalid amount. Please enter a non-negative number.");
return amount;
}
private static double convertCurrency(int baseCurrencyChoice, int
targetCurrencyChoice, double amount) {
double conversionRate = 0.0;
switch (baseCurrencyChoice) {
case 1: // USD (United States Dollar)
switch (targetCurrencyChoice) {
case 1: // USD to USD
conversionRate = 1.0;
break;
case 2: // USD to EUR
conversionRate = 0.95;
break:
case 3: // USD to INR
conversionRate = 83.18;
break;
case 4: // USD to YEN
conversionRate = 149.86;
break;
case 5: // USD to CAD
conversionRate = 1.37;
break;
case 6: // USD to YUAN
conversionRate = 7.32;
break;
}
break;
case 2: // EUR (Euro)
switch (targetCurrencyChoice) {
case 1://EUR to USD
     conversionRate = 1.06;
     break;
case 2://EUR to INR
conversionRate = 87.96;
break;
case 3://EUR to YEN
     conversionRate = 158.47;
     break;
```

```
case 4://EUR to CAD
     conversionRate = 1.45;
     break;
case 5://EUR to YUAN
    conversionRate = 7.74;
    break;
}
break;
case 3: // INR (Indian Rupee)
switch (targetCurrencyChoice) {
case 1://INR to USD
     conversionRate = 0.012;
     break;
case 2: //INR to EUR
     conversionRate = 0.011;
     break;
case 3://INR to YEN
     conversionRate = 1.80;
     break;
case 4://INR to CAD
     conversionRate = 0.016;
    break;
case 5://INR to YAUN
     conversionRate = 0.088;
     break;
}
break;
case 4: // YEN (Japanese Yen)
switch (targetCurrencyChoice) {
case 1://YEN to USD
     conversionRate = 0.0067;
     break;
case 2://YEN to EUR
     conversionRate = 0.0063;
     break;
case 3://YEN to INR
     conversionRate = 0.56;
     break;
case 4://YEN to CAD
     conversionRate = 0.0092;
     break;
case 5://YEN to YAUN
     conversionRate = 0.048;
    break;
}
break;
case 5: // CAD (Canadian Dollar)
switch (targetCurrencyChoice) {
case 1://CAD to USD
     conversionRate = 0.73;
     break;
case 2://CAD to EUR
     conversionRate = 0.69;
     break;
case 3://CAD to INR
     conversionRate = 60.66;
     break;
```

```
case 4://CAD to YEN
     conversionRate = 109.30;
     break;
case 5://CAD to YAUN
    conversionRate = 5.34;
    break;
}
break;
case 6: // YUAN (Chinese Yuan)
switch (targetCurrencyChoice) {
case 1://YAUN to USD
     conversionRate = 0.14;
     break;
case 2://YAUN to EUR
     conversionRate = 0.13;
case 3://YAUN to INR
     conversionRate = 11.37;
     break;
case 4://YAUN to YEN
     conversionRate = 20.48;
    break;
case 5://YAUN to CAD
     conversionRate = 0.19;
     break;
}
break;
}
return amount * conversionRate;
}
}
```

