Untitled-1

```java
1   import java.util.Scanner;
2
3   public class CurrencyConverter {
4       private static final double USD_TO_EUR = 0.93; // Example exchange rate
5       private static final double EUR_TO_USD = 1.08; // Example exchange rate
6       private static final double USD_TO_JPY = 139.45; // Example exchange rate
7       private static final double JPY_TO_USD = 0.0072; // Example exchange rate
8       private static final double EUR_TO_JPY = 149.15; // Example exchange rate
9       private static final double JPY_TO_EUR = 0.0067; // Example exchange rate
10
11      public static void main(String[] args) {
12          Scanner scanner = new Scanner(System.in);
13          String sourceCurrency, targetCurrency;
14          double amount;
15
16          System.out.println("Currency Converter");
17          System.out.print("Enter source currency (USD, EUR, JPY): ");
18          sourceCurrency = scanner.nextLine().toUpperCase();
19          System.out.print("Enter target currency (USD, EUR, JPY): ");
20          targetCurrency = scanner.nextLine().toUpperCase();
21          System.out.print("Enter amount to convert: ");
22          amount = scanner.nextDouble();
23
24          double convertedAmount = convertCurrency(sourceCurrency, targetCurrency, amount);
25          if (convertedAmount >= 0) {
26              System.out.printf("%.2f %s is equivalent to %.2f %s%n", amount, sourceCurrency,
    convertedAmount, targetCurrency);
27          } else {
28              System.out.println("Invalid currency codes entered.");
29          }
30
31          scanner.close();
32      }
33
34      private static double convertCurrency(String sourceCurrency, String targetCurrency, double
    amount) {
35          if (sourceCurrency.equals(targetCurrency)) {
36              return amount; // No conversion needed
37          }
38
39          switch (sourceCurrency) {
40              case "USD":
41                  switch (targetCurrency) {
42                      case "EUR": return amount * USD_TO_EUR;
43                      case "JPY": return amount * USD_TO_JPY;
44                      default: return -1; // Invalid target currency
45                  }
46              case "EUR":
```

```
47              switch (targetCurrency) {
48                  case "USD": return amount * EUR_TO_USD;
49                  case "JPY": return amount * EUR_TO_JPY;
50                  default: return -1; // Invalid target currency
51              }
52          case "JPY":
53              switch (targetCurrency) {
54                  case "USD": return amount * JPY_TO_USD;
55                  case "EUR": return amount * JPY_TO_EUR;
56                  default: return -1; // Invalid target currency
57              }
58          default:
59              return -1; // Invalid source currency
60          }
61      }
62  }
63
```