```
import java.util.Scanner;

public class currency
{
   public currency()
   {
      char us_dollar_sym = 36;
      char pound_sym = 163;
      char yen_sym = 165;
      char euro_sym = 8364;

      String us_dollar = "Dollars";
      String pound = "Pounds";
      String yen = "Yen";
      String euro = "Euros";
      double rate = 0;
       // Interface
      System.out.println("Welcome
to the Currency Converter
Program \n");
      System.out.println("Use the
following codes to input your
currency choices: \n 1 - US
dollars \n 2 - Euros \n 3 - British
Pounds \n 4 - Japanese Yen \n");

      //
      System.out.println("Please
```

```
choose the input currency:");
        Scanner in = new
Scanner(System.in);
        int choice = in.nextInt();
        String inType = null;
        switch(choice) {
        case 1: inType = "US Dollars
>> " + us_dollar_sym;  break;
        case 2: inType = "Euros >> "
+ euro_sym; break;
        case 3: inType = "British
Pounds >> " + pound_sym; break;
        case 4: inType = "Japanese
Yen >> " + yen_sym; break;
        default:
        System.out.println("Please
restart the program & enter a
number from the list.");
        return;
      }
         System.out.println("Please
choose the output currency");
        int output = in.nextInt();

        System.out.printf("Now enter
the input in " + inType);
        double input =
in.nextDouble();
```

```
    if (choice == output)
      System.out.println("Same
currency no need to convert");

    if (choice == 1 && output ==
2)
     {
       double dollar_euro_rate =
0.78391;
       rate = input *
dollar_euro_rate;
       System.out.printf( "%s" +
input + " at a conversion rate of "
+ dollar_euro_rate + " Dollars to
%s = %.2f\n",
(char)us_dollar_sym, euro, rate);
     }
     else if (choice == 1 &&
output == 3){
       double dollar_pound_rate =
0.621484;
       rate = input *
dollar_pound_rate;
       System.out.printf( "%s" +
input + " at a conversion rate of "
+ dollar_pound_rate + " Dollars to
%s = %.2f\n",
```

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(char)us_dollar_sym, pound,
rate);
        }
        else if (choice == 1 &&
output == 4){
          double dollar_yen_rate =
107.174;
          rate = input *
dollar_yen_rate;
          System.out.printf( "%s" +
input + " at a conversion rate of "
+ dollar_yen_rate + " Dollars to %s
= %.2f\n", (char)us_dollar_sym,
yen, rate);
        }
      if (choice == 2 && output ==
1)
       {
       if (choice == 2 && output ==
1)
      {
          double euro_dollar_rate =
1.27579;
          rate = input *
euro_dollar_rate;
          System.out.printf( "%s" +
input + " at a conversion rate of "
+ euro_dollar_rate + " Euros to %s
```

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= %.2f\n", (char)euro_sym,
us_dollar, rate);
      }
      else if (choice == 2 &&
output == 3)
      {
        double euro_pound_rate =
0.792648;
        rate = input *
euro_pound_rate;
        System.out.printf( "%s" +
input + " at a conversion rate of "
+ euro_pound_rate + " Euros to
%s = %.2f\n", (char)euro_sym,
pound, rate);
      }
      else if (choice == 2 &&
output == 4)
      {
        double euro_yen_rate =
136.708;
        rate = input * euro_yen_rate;
        System.out.printf( "%s" +
input + " at a conversion rate of "
+ euro_yen_rate + " Euros to %s =
%.2f\n", (char)euro_sym, yen,
rate);
      }
```

```
    if (choice == 3 && output ==
1)
    {
        double pound_dollar_rate =
1.60972;
        System.out.printf( "%s" +
input + " at a conversion rate of "
+ pound_dollar_rate + " Pounds to
%s = %.2f\n", (char)pound_sym,
us_dollar, rate);
     {
      else if (choice == 3 &&
output == 2)
      {
        double pound_euro_rate =
1.26161;
        System.out.printf( "%s" +
input + " at a conversion rate of "
+ pound_euro_rate + " Pounds to
%s = %.2f\n", (char)pound_sym,
euro, rate);
      }
      else if (choice == 3 &&
output == 4)
      {
        double pound_yen_rate =
172.511;
        System.out.printf( "%s" +
```

```
input + " at a conversion rate of "
+ pound_yen_rate + " Pounds to
%s = %.2f\n", (char)pound_sym,
yen, rate);
        }
        if (choice == 4 && output ==
1)
      {
          double yen_dollar_rate =
0.00932574;
          System.out.printf( "%s" +
input + " at a conversion rate of "
+ yen_dollar_rate + " Yen to %s =
%.2f\n", (char)yen_sym, us_dollar,
rate);
        }
        else if (choice == 4 &&
output == 2)
        {
          double yen_euro_rate =
0.00730615;
          System.out.printf( "%s" +
input + " at a conversion rate of "
+ yen_euro_rate + " Yen to %s =
%.2f\n", (char)yen_sym, euro,
rate);
         }
         else if (choice == 4 &&
```

```
output == 3)
        {
          double yen_pound_rate =
0.00579135;
          System.out.printf( "%s" +
input + " at a conversion rate of "
+ yen_pound_rate + " Yen to %s =
%.2f\n", (char)yen_sym, pound,
rate);
        }
       System.out.println("Thank
you for using the currency
converter");
    }
}
```