

```

1 // July 2020 exams. Currency converter. One class static methods.
2 // Converts US dollars to british pounds and british pounds to US dollars
3
4 import javax.swing.JOptionPane;
5
6 public class CurrencyConverter
7 {
8     private static double amount = 0.0;
9     private static double convertedAmount = 0.0;
10    private static double rateDollarsToPounds = 0.792;
11    private static double ratePoundsToDollars = 1.262;
12
13    public static void main (String[] args)
14    {
15        String conversion = JOptionPane.showInputDialog(null, "To convert US dollars to British Pounds type
DP" + "\n" + "To convert British pounds to US Dollars type PD");
16        conversion = conversion.toUpperCase();
17        amount = Double.parseDouble(JOptionPane.showInputDialog(null, "Type the amount you would like to con
vert"));
18        while (amount <= 0.0)
19        {
20            amount = Double.parseDouble(JOptionPane.showInputDialog(null, "The amount must be larger than zer
o" + "\n" + "Type the amount you would like to convert"));
21        }
22
23        if (conversion.equals("DP"))
24            convertDollarsToPounds();
25        else if (conversion.equals("PD"))
26            convertPoundsToDollars();
27        else
28        {
29            System.out.println("Error with inpout");
30            System.exit(0);
31        }
32
33        System.out.println("The amount to be converted was " + amount);
34        System.out.println("The new amount is " + convertedAmount);
35    } // end main
36
37    private static void convertDollarsToPounds()
38    {
39        System.out.println("Dollars to Pounds");
40        convertedAmount = amount * rateDollarsToPounds;
41    }
42
43    private static void convertPoundsToDollars()
44    {
45        System.out.println("Pounds to Dollars");
46        convertedAmount = amount * ratePoundsToDollars;
47    }
48
49 }
50
51
52
53 } // end class

```

Declare variables

Input Output

Processing

Processing