```
public static void main(String[] args) {
        //variables
        int coin = 0, option;
        System.out.print("Input your coin value: ");
        coin = keyboard.nextInt();
        do {//start of menu
            usermenu();
            option = keyboard.nextInt();
            switch (option) {
                case 1:
                    float dollConv = intToFloat(coin);//call method
                    valuesPrint(option, coin, dollConv, 0.0, "", 0,
0, "");//call method
                    break;
                case 2:
                    double poundConv = intToDouble(coin);//call
method
                   valuesPrint(option, coin, (float) 0.0,
poundConv, "", 0, 0, "");//call method
                    break;
                case 3:
                    String yenConv = intToString(coin);//call method
                    valuesPrint(option, coin, (float) 0.0, 0.0,
yenConv, 0, 0, "");//call method
                    break;
                case 4:
                    int bitConv = stringToInt(coin);//call method
                    valuesPrint(option, coin, (float) 0.0, 0.0, "",
bitConv, 0, "");//call method
                    break;
                case 5:
                    int solesConv = floatToInt(coin);//call method
                    valuesPrint(option, coin, (float) 0.0, 0.0, "",
0, solesConv, "");//call method
                    break;
                case 6:
                    String pesosConv = floatToString(coin);
                    valuesPrint(option, coin, (float) 0.0, 0.0, "",
0, 0, pesosConv);//call method
```

```
break;
                case 7:
                    char letter;
                    System.out.print("Input letter: ");
                    letter = (keyboard.next()).charAt(0);
                    String binary = Integer.toBinaryString(letter);
                    int intConv = charToInt(letter);//call method
                    System.out.println("Letter: " + letter + "=Int
value: " + intConv + "=Binary value= " + binary);
                    break;
                case 8:
                    String word;
                    System.out.print("Input a word: ");
                    word = keyboard.next();
                    String wordBin = stringToBinary(word);//call
method
                    System.out.println(word + "=" + wordBin + " ");
                    break;
                case 9:
                    int number;
                    System.out.print("Input number: ");
                    number = keyboard.nextInt();
                    char numberChar = intToChar(number);//call
method
                    System.out.println(number + "=" + numberChar);
                    break;
                case 10:
                    //Es un código de caracteres, se creó para poder
dar números a los caracteres para poder utilizarlos en computación.
                    asciiTable();//call method
                    break;
                case 0:
                    System.out.println("****Thanks for using our
program*****");
                    break;
                default:
                    System.out.println("Invalid option");
        } while (option != 0);//end of menu
```

```
//part 1 int to float (gets euro(int)returns dollars(float))
    private static float intToFloat(int euros) {
        //variables
        float dollars = 0;
        //eu to dollars
        dollars = (float) euros / 0.91f;
        return dollars;
    }

    //part 2 int to double (gets euro(int)returns pounds(double)
    private static double intToDouble(int euros) {
        //variables
        float pounds = 0;
        //eu to pounds
        pounds = euros / 1.18f;
        return pounds;
```

```
//part 3 int to String (gets euro(int)returns yens(String))
   private static String intToString(int euros) {
        //variables
        double yens;
        //eu to yens
        yens = (float) euros / 0.0083f;
        String yensStr = String.valueOf(yens);
        return yensStr;
    //part 4 String to int (gets euro(int converts to string)returns
Bitcoins(int))
   private static int stringToInt(int euros) {
        //variables
        String eurostr = String.valueOf(euros);
        int eurosint = Integer.parseInt(eurostr);
        int bitcoins;
        //eu to BTC
       bitcoins = (int) (eurosint / 9046.26f);
       return bitcoins;
    //part 5 float to int (gets euro(int converts to float)returns
Soles(int))
   private static int floatToInt(float euros) {
        //variables
       int soles;
        //eu to soles
        soles = (int) (euros / 0.27f);
        return soles;
//part 6 float to String (gets euros(float)return pesos(String))
   private static String floatToString(float euros) {
        //variables
        double pesos;
        //eu to yens
        pesos = euros / 0.0083f;
        String pesosStr = String.valueOf(pesos);
        return pesosStr;
//part 7 char to Int ascii code (gets character (char) return)
   private static int charToInt(char character) {
        //variables
        int asciChar;
        asciChar = (int) character;
        return asciChar;
//part 8 converts string to binary
   private static String stringToBinary(String letters) {
        //variables
        StringBuilder binarys = new StringBuilder();
        for (int i = 0; i < letters.length(); i++) {</pre>
            int ascii = letters.charAt(i);
            binarys.append(Integer.toBinaryString(ascii));
        return binarys.toString();
```

```
//Printing values with decimal format
    private static void valuesPrint(int opMenu, int euroDef, float
dollarConvert, double poundConvert, String yenConvert, int
bitConvert, int solConvert, String pesConvert) {
        DecimalFormat df = new DecimalFormat(".00");
        //print values
        if (opMenu == 1) {
            System.out.println(df.format(euroDef) + "\in = " +
df.format(dollarConvert) + "$");
        if (opMenu == 2) {
            System.out.println(df.format(euroDef) + "€ = " +
df.format(poundConvert) + "£");
        if (opMenu == 3) {
            System.out.println(df.format(euroDef) + "€ = " +
yenConvert + "\forall");
        if (opMenu == 4) {
            System.out.println(df.format(euroDef) + "€ = " +
df.format(bitConvert) + "BTC");
        if (opMenu == 5) {
            System.out.println(df.format(euroDef) + "€ = " +
df.format(solConvert) + "S/");
        if (opMenu == 6) {
            System.out.println(df.format(euroDef) + "\in = " +
df.format(pesConvert) + "P");
        }
```

```
//Menu options
   private static void usermenu() {//Start of the menu
        System.out.println("");
        System.out.println("Euros to Dollars: ");
        System.out.println("Euros to Pounds: ");
        System.out.println("Euros to Yens: ");
        System.out.println("Euros to Bitcoins: ");
        System.out.println("Euros to Soles: ");
        System.out.println("Euros to Pesos: ");
        System.out.println("Letter to binary: ");
        System.out.println("Word to binary: ");
        System.out.println("Number to Char: ");
        System.out.println("ASCII Table: ");
        System.out.println("Option0: Exit");
        System.out.println("\noption?: ");
    }//end of menu
}
```

```
Menu

Input your coin value: 120

Euros to Dollars:
Euros to Pounds:
Euros to Yens:
Euros to Bitcoins:
Euros to Soles:
Euros to Pesos:
Option7:
Option0: Exit
```

```
Part 1

Option?:
1
120,00€ = 131,87$
```

```
Part 2

2
120,00€ = 101,69£
```

```
Part 3

Option?:
3
120,00€ = 14457.83203125¥
```

```
Part 4:

Option?:
4
10000,00€ = 1,00BTC
```

```
Part 5

Option?:
5
120,00€ = 444,00S/
```

```
Part 6

Option?:

6

120,00€ = 14457.832₱
```

```
Part 7

Option?:
7
Input letter: A
Letter: A=Int value: 65=Binary value= 1000001
```

```
Part 8

Option?:
8
Input a word: Hello
Hello=100100011001011011001101111
```

```
Part 9

Option?:
9
Input number: 250
250=ú
```

```
Part 10
 165: a5: ¥
 166: a6: ;
 167: a7: §
 168: a8: "
 169: a9: ©
 170: aa: ª
 171: ab: «
 172: ac: ¬
 173: ad: -
 174: ae: 🛭
 175: af: -
 176: b0: °
 177: b1: ±
 178: b2: s
 179: b3: 3
 180: b4: '
 181: b5: μ
 182: b6: ¶
 183: b7: ·
 184: b8: ,
 185: b9: 1
 186: ba: °
 187: bb: »
 188: bc: 34
 189: bd: 14
 190: be: ¾
 191: bf: ¿
 192: c0: À
 193: cl: Á
 194: c2: Â
 195: c3: Ã
 196: c4: Ä
 197: c5: Å
 198: c6: Æ
 199: c7: Ç
 etc ...
```