**package** Assignment2;

**import** java.util.Scanner;

**class** Currency{

String sym;

**void** symbol(**int** a){

**switch** (a)

{

**case** 1:

sym = "Rs. "; //Ruppees

**break**;

**case** 2:

sym = "$"; //Dollar

**break**;

**case** 3:

sym = "£"; //Pound

**break**;

**case** 4:

sym = "€"; //Euro

**break**;

**case** 5:

sym = "¥"; //Yen (Japanese)

**break**;

**case** 6:

sym = "RM "; //Ringgit (Malaysian)

**break**;

**case** 7:

sym = "AUD "; //AUD

**break**;

**default**:

**break**;

}

}

}

**class** Converter **extends** Currency{

**public** **int** fromcur,tocur;

**public** **double** amount=0, amountto=0;

Converter(){

System.***out***.println("\tWelcome to Currency Converter" );

System.***out***.println("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*" );

System.***out***.println();

}

**public** **void** getInput(){

Scanner sc=**new** Scanner(System.***in***);

System.***out***.println("Enter the currency you want to convert from the below list:" );

System.***out***.println();

System.***out***.println("1.Ruppee \t 2.Dollar \t 3.Pound \t 4.Euro \t 5.Yen \t 6.Ringgit \t 7.AUD" );

fromcur=sc.nextInt();

System.***out***.println("Enter the amount: " );

amount=sc.nextDouble();

System.***out***.println("Enter the currency to which you want to convert:" );

System.***out***.println("1.Ruppee \t 2.Dollar \t 3.Pound \t 4.Euro \t 5.Yen \t 6.Ringgit \t 7.AUD" );

tocur=sc.nextInt();

}

**public** **int** convertTo()

{

**int** rc=1;

**switch** (fromcur)

{

**case** 1: //Ruppees to other currencies

**switch** (tocur)

{

**case** 2:

amountto = amount \* 0.013;

**break**;

**case** 3:

amountto = amount \* 0.097;

**break**;

**case** 4:

amountto = amount \* 0.011;

**break**;

**case** 5:

amountto = amount \* 1.48;

**break**;

**case** 6:

amountto = amount \* 0.056;

**break**;

**case** 7:

amountto = amount \* 0.018;

**break**;

**default**:

System.***out***.println("Invalid option..!!" );

rc=0; **break**;

}

**break**;

**case** 2: //Dollar to other currencies

**switch** (tocur)

{

**case** 1:

amountto = amount \* 74.49;

**break**;

**case** 3:

amountto = amount \* 0.72;

**break**;

**case** 4:

amountto = amount \* 0.84;

**break**;

**case** 5:

amountto = amount \* 110.11;

**break**;

**case** 6:

amountto = amount \* 4.19;

**break**;

**case** 7:

amountto = amount \* 1.34;

**break**;

**default**:

System.***out***.println("Invalid option..!!" );

rc=0; **break**;

}

**break**;

**case** 3: //Pound to other currencies

**switch** (tocur)

{

**case** 1:

amountto = amount \* 103.56;

**break**;

**case** 2:

amountto = amount \* 1.39;

**break**;

**case** 4:

amountto = amount \* 1.17;

**break**;

**case** 5:

amountto = amount \* 153.07;

**break**;

**case** 6:

amountto = amount \* 5.38;

**break**;

**case** 7:

amountto = amount \* 1.86;

**break**;

**default**:

System.***out***.println("Invalid option..!!" );

rc=0; **break**;

}

**case** 4: //Euro to other currencies

**switch** (tocur)

{

**case** 1:

amountto = amount \* 88.47;

**break**;

**case** 2:

amountto = amount \* 1.19;

**break**;

**case** 3:

amountto = amount \* 0.85;

**break**;

**case** 5:

amountto = amount \* 130.83;

**break**;

**case** 6:

amountto = amount \* 4.98;

**break**;

**case** 7:

amountto = amount \* 1.59;

**break**;

**default**:

System.***out***.println("Invalid option..!!" );

rc=0; **break**;

}

**break**;

**case** 5: //Yen to other currencies

**switch** (tocur)

{

**case** 1:

amountto = amount \* 0.68;

**break**;

**case** 2:

amountto = amount \* 0.0091;

**break**;

**case** 3:

amountto = amount \* 0.0065;

**break**;

**case** 4:

amountto = amount \* 0.0076;

**break**;

**case** 6:

amountto = amount \* 0.038;

**break**;

**case** 7:

amountto = amount \* 0.012;

**break**;

**default**:

System.***out***.println("Invalid option..!!" );

rc=0; **break**;

}

**break**;

**case** 6: //Ringgit to other currencies

**switch** (tocur)

{

**case** 1:

amountto = amount \* 17.78;

**break**;

**case** 2:

amountto = amount \* 0.24;

**break**;

**case** 3:

amountto = amount \* 0.17;

**break**;

**case** 4:

amountto = amount \* 0.20;

**break**;

**case** 5:

amountto = amount \* 26.33;

**break**;

**case** 7:

amountto = amount \* 0.32;

**break**;

**default**:

System.***out***.println("Invalid option..!!" );

rc=0; **break**;

}

**break**;

**case** 7: //AUD to other currencies

**switch** (tocur)

{

**case** 1:

amountto = amount \* 55.76;

**break**;

**case** 2:

amountto = amount \* 0.74;

**break**;

**case** 3:

amountto = amount \* 0.54;

**break**;

**case** 4:

amountto = amount \* 0.63;

**break**;

**case** 5:

amountto = amount \* 82.46;

**break**;

**case** 6:

amountto = amount \* 3.14;

**break**;

**default**:

System.***out***.println("Invalid option..!!" );

rc=0; **break**;

}

**break**;

**default**:

System.***out***.println("Invalid option..!!" );

rc=0; **break**;

}

**return** rc;

}

}

**public** **class** CurrencyConverter {

**public** **static** **void** main(String[] args) {

Scanner sc=**new** Scanner(System.***in***);

Converter ob = **new** Converter();

**char** flag='N';

**do** {

ob.getInput();

**int** rc = ob.convertTo();

ob.symbol(ob.tocur);

**if**(rc != 0) //Display the output only if the convertTo() is success

{

System.***out***.println("Converted Amount:" + ob.sym + ob.amountto );

}

System.***out***.println("Do you wish to continue: [Y/N]" );

flag=sc.next().charAt(0);

}

**while** (flag == 'Y'||flag== 'y');

**if** (flag != 'Y'||flag != 'y') //display the end note if the user select any option other than Y or y

{

System.***out***.println();

System.***out***.println("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Thank You \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");

}

}

}