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\* Class:currencyConversion Ex.P7.1 Pg.270 Author: Yin Linhai

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\* This program asks for a conversion ratio, and then uses that ratio to solve for US dollars to Euro or vice versa

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\* School:Sir Winston Churchill High School, Calgary, Alberta, Canada

\* Language: Java SE 7.0Target Operating System: Java Virtual Machine

\* System:Intel Celeron 3GHz running under Windows 7 IDE: Eclipse 4.2

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**package** Exercises;

**import** java.util.Scanner;

**public** **class** currencyConversion {

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\* **@param** args

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

//declaration

**float** rate, US, Euro;

String input;

**char** check;

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

//ask for conversion rate and take input

System.*out*.println("What is the current conversion rate of the US dollar to the Euro?");

rate = scan.nextFloat();

//asking for conversion, and operation loop

**do** {

//asking for conversion and taking input

System.*out*.println("What would you like to do?\n A. US -> Euro\n B.Euro -> US\n\n q to quit");

input = scan.next();

//setting the first letter as a character data type

check = input.charAt(0);

//checking if it should quit the program

**if** (check == 'q') {

**break**;

//asking how much cash and then calculating

} **else** {

**switch** (check) {

//US to Euro program

**case** 'A':

**case** 'a': //asking for the monetary amount and storing input

System.*out*.println("How much US dollars?");

US = scan.nextFloat();

//calculation

Euro = rate \* US;

//print response

System.*out*.println("You will have " + Euro + "Euros");

**break**;

//Euro to US program

**case** 'B':

**case** 'b': //asking for the amount and storing the input

System.*out*.println("How much Euros?");

Euro = scan.nextFloat();

//calculation

US = Euro/rate;

//printing response

System.*out*.println("You will have " + US + "Dollars");

**break**;

//if you enter an invalid entry

**default**:

//send back to selection

**break**;

}

}

//to break the loop in its entirety

} **while** (check!=('q'));

//close scanner

scan.close();

}

}