**Chapter 4**

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/\* Name: Chapter4Homework.java

/\* Assignment: Chapter 4 Homework

/\* Author: Taylor Earl

/\* Date: 9/22/14

/\* DueDate: 9/23/14

/\* Description: This program asks a user to enter their status, exemptions, and income.

\* It is then used to determine the proper rates that they get.

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package chapter4homework;

/\*\*

\*

\* @author socce\_000

\*/

import java.util.Scanner;

public class Chapter4Homework {

/\*\*

\* @param args the command line arguments

\*/

public static void main(String[] args) {

Scanner stdIn = new Scanner (System.in);

int income;

int exemption;

String status;

char response;

do{ //do you want to continue loop

do{ //input validation loop

System.out.println("Are you single, married, or combined? ");

status = stdIn.next();

}while(!(status.equalsIgnoreCase("Single") ||

(status.equalsIgnoreCase("Married") ||

(status.equalsIgnoreCase("Combined")) ||

(status.equalsIgnoreCase("C")) ||

(status.equalsIgnoreCase("M")) ||

(status.equalsIgnoreCase("S")))));

do{ //input validaiton loop

System.out.println("Please enter your gross income. ");

income = stdIn.nextInt();

}while (income<=0);

System.out.println("Enter the number of exemptions. ");

exemption = stdIn.nextInt();

int taxable = (income - (1000 \* exemption));

switch (status.charAt(0))

{

case 'S' : case 's':

if(taxable >= 0){

System.out.println("\*\*INCOME TAX SUMMARY\*\*");

System.out.println("Tax rate is 20%. ");

System.out.println("Taxable income is $" + taxable);

System.out.println("Taxes owed are $" + (taxable \* .2));

}

else{

System.out.println("\*\*INCOME TAX SUMMARY\*\*");

System.out.println("Tax rate is 20%. ");

System.out.println("Taxable income is $0.");

System.out.println("Taxes owed are $0.");

}

break;

case 'm': case 'M':

if(taxable >= 0){

System.out.println("\*\*INCOME TAX SUMMARY\*\*");

System.out.println("Tax rate is 25%. ");

System.out.println("Taxable income is $" + taxable);

System.out.println("Taxes owed are $" + (taxable \* .25));

}

else{

System.out.println("\*\*INCOME TAX SUMMARY\*\*");

System.out.println("Tax rate is 25%. ");

System.out.println("Taxable income is $0. ");

System.out.println("Taxes owed are $0. ");

}

break;

case 'c': case 'C':

{

if (taxable >= 0){

{if (taxable <= 20000)

{

System.out.println("\*\*INCOME TAX SUMMARY\*\*");

System.out.println("Tax rate is 10%. ");

System.out.println("Taxable income is $" + taxable);

System.out.println("Taxes owed are $" + (taxable \* .1));

}

else if (taxable <= 50000)

{

System.out.println("\*\*INCOME TAX SUMMARY\*\*");

System.out.println("Tax rate is 15%. ");

System.out.println("Taxable income is $" + taxable);

System.out.println("Taxes owed are $" + (taxable \* .15));

}

else

{

System.out.println("\*\*INCOME TAX SUMMARY\*\*");

System.out.println("Tax rate is 30%.");

System.out.println("Taxable income is $" + taxable);

System.out.println("Taxes owed are $" + (taxable \* .3));

}}}

else{

System.out.println("\*\*INCOME TAX SUMMARY\*\*");

System.out.println("Tax rate is 10%. ");

System.out.println("Taxable income is $0.");

System.out.println("Taxes owed are $0.");

}

break;

}

}

System.out.println("Do you want to continue?"); //for do loop

System.out.println("(Enter y/n)"); //for do loop

response = stdIn.next().charAt(0);

}while(response == 'Y' || response == 'y'); //for do loop

}

}

**Chapter 5**

import java.util.Scanner;

public class Chapter5Assignment2 {

public static void main(String[] args) {

Scanner stdIn = new Scanner (System.in);

char response;

do{

status();

String status = status();

income();

int income = income();

exemption();

int exemption = exemption();

int taxable = (income - (1000 \* exemption));

switch (status.charAt(0))

{

case 'S' : case 's':

if(taxable >= 0){

System.out.println("\*\*INCOME TAX SUMMARY\*\*");

System.out.println("Tax rate is 20%. ");

System.out.println("Taxable income is $" + taxable);

System.out.println("Taxes owed are $" + (taxable \* .2));

}

else{

System.out.println("\*\*INCOME TAX SUMMARY\*\*");

System.out.println("Tax rate is 20%. ");

System.out.println("Taxable income is $0.");

System.out.println("Taxes owed are $0.");

}

break;

case 'm': case 'M':

if(taxable >= 0){

System.out.println("\*\*INCOME TAX SUMMARY\*\*");

System.out.println("Tax rate is 25%. ");

System.out.println("Taxable income is $" + taxable);

System.out.println("Taxes owed are $" + (taxable \* .25));

}

else{

System.out.println("\*\*INCOME TAX SUMMARY\*\*");

System.out.println("Tax rate is 25%. ");

System.out.println("Taxable income is $0. ");

System.out.println("Taxes owed are $0. ");

}

break;

case 'c': case 'C':

{

if (taxable >= 0){

{if (taxable <= 20000)

{

System.out.println("\*\*INCOME TAX SUMMARY\*\*");

System.out.println("Tax rate is 10%. ");

System.out.println("Taxable income is $" + taxable);

System.out.println("Taxes owed are $" + (taxable \* .1));

}

else if (taxable <= 50000)

{

System.out.println("\*\*INCOME TAX SUMMARY\*\*");

System.out.println("Tax rate is 15%. ");

System.out.println("Taxable income is $" + taxable);

System.out.println("Taxes owed are $" + (taxable \* .15));

}

else

{

System.out.println("\*\*INCOME TAX SUMMARY\*\*");

System.out.println("Tax rate is 30%.");

System.out.println("Taxable income is $" + taxable);

System.out.println("Taxes owed are $" + (taxable \* .3));

}}}

else{

System.out.println("\*\*INCOME TAX SUMMARY\*\*");

System.out.println("Tax rate is 10%. ");

System.out.println("Taxable income is $0.");

System.out.println("Taxes owed are $0.");

}

break;

}

}

System.out.println("Do you want to continue?"); //for do loop

System.out.println("(Enter y/n)"); //for do loop

response = stdIn.next().charAt(0);

}while(response == 'Y' || response == 'y'); //for do loop

}

public static String status(){

Scanner stdIn = new Scanner (System.in);

String status;

do{ //input validation loop

System.out.println("Are you single, married, or combined? ");

status = stdIn.next();

}while(!(status.equalsIgnoreCase("Single") ||

(status.equalsIgnoreCase("Married") ||

(status.equalsIgnoreCase("Combined")) ||

(status.equalsIgnoreCase("C")) ||

(status.equalsIgnoreCase("M")) ||

(status.equalsIgnoreCase("S")))));

return status;

}

public static int income (){

Scanner stdIn = new Scanner (System.in);

int income;

do{ //input validaiton loop

System.out.println("Please enter your gross income. ");

income = stdIn.nextInt();

}while (income<=0);

return income;

}

public static int exemption(){

Scanner stdIn = new Scanner (System.in);

int exemption;

System.out.println("Enter the number of exemptions. ");

exemption = stdIn.nextInt();

return exemption;

}

//public static void switcH(){

}