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\* Course Section: IS-2063-ON2

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import java.util.Calendar; //import calendar

import java.util.Scanner; // import scanner

public class DeleonFON1PA1 // Begin class DeleonFON1PA1

{ //Begin class scope

/\* Method Purpose: Users are prompted for the projected sales revenue, the number of sales reps,

\* the number of quarters a rep has worked, the quarter(s) in which revenue was earned, and the sales revenue

\* for each month within a quarter. If the sales rep is earning 50% or above their target, than an encouraging

\* message is given; otherwise, a warning that sales are lagging behind. If sales revenue for the company is

\* greater than or equal to 100% of projected annual sales, then employees qualify for a 2-5% year-end bonus;

\* otherwise, the sales are not on track to meet projections, and no year- end bonus can be expected

\*/

public static void main(String[] args) //Main method header

{ // begin method scope

//Declare variables to be used.

String salesRep = ""; //declare empty salesRep string.

String monthNo = ""; //declare empty monthNo string.

String quarter = ""; //declare empty quarter string.

double salesRevenue; //declare salesRevenue double.

double annualSales = 0.0; //declare annualSales double.

double projectedSales; //declare projectedSales double.

double percOfTargetCo; //declare percOfTargetCo double.

double percOfTargetRep; //declare percOfTargetRep double.

int qtrChoice = 0; //declare qtrChoice int to zero.

int monthCounter = 0; //declare monthCounter int to zero.

int qtrCounter = 0; //declare qtrCounter int to zero.

int noOfQtrs = 0; //declare noOfQtrs int to zero.

int noOfMonths = 3; //declare noOfMonths int to three.

int noSalesReps = 0; //declare noSalesReps int to zero.

int salesRepCtr = 0; //declare salesRepCtr int to zero.

Scanner input = new Scanner(System.in); //declare input variable for scanner inputs.

Calendar dateTime = Calendar.getInstance(); //declare dateTime variable to get calendar instance.

System.out.printf("%nWhat is the projected annual sales for Tandem?"); //print prompt 1.

projectedSales = input.nextDouble(); //gather input for projectedSales double variable from prompt 1.

System.out.printf("%nHow many sales reps work for Tandem?"); //print prompt 2.

noSalesReps = input.nextInt(); //gather input for noSalesReps int variable from prompt 2.

input.nextLine(); // buffer clear to move to nextLine.

//prompt 1 & 2 coded before the do-while loop which controls the sales rep.

do //Begin do-while loop

{ // begin scope

qtrCounter = 1; // assign qtrCounter to 1

double quarterlySales = 0.0; //zero out quarterlySales

salesRepCtr++; //post increment salesRepCtr

//print prompt 3.

System.out.printf("%nEnter the name of %s sales rep: ", salesRepCtr == 1 ? "a" : "the next");

salesRep = input.nextLine(); //gather String input for salesRep.

//print prompt 4.

System.out.printf("%nEnter the number of quarters worked (no less than 1 or greater than 4): ");

noOfQtrs = input.nextInt(); //gather input for noOfQtrs int.

//nest while loop to control the number of quarters.

while(qtrCounter <= noOfQtrs) //begin while loop for qtrCounter less than or equal to noOfQtrs

{ //being scope

monthCounter = 1; //initialize monthCounter to 1.

//prompt 5

System.out.printf("1. First Quarter%n"); //print first quarter option.

System.out.printf("2. Second Quarter%n"); //print second quarter option.

System.out.printf("3. Third Quarter%n"); //print third quarter option.

System.out.printf("4. Fourth Quarter"); //print fourth quarter option.

//print prompt 5.

System.out.printf("%n%nChoose the %squarter in which sales were earned: ", qtrCounter > 1 ? "next " : "");

qtrChoice = input.nextInt(); //gather input for qtrChoice int.

//content for quarter variable

quarter = (qtrChoice == 1) ? "First Quarter" : (qtrChoice == 2) ? "Second Quarter" : (qtrChoice == 3) ? "Third Quarter" : "Fourth Quarter";

//second nested while loop to control the number of months within a quarter.

while (monthCounter <= noOfMonths)//while monthCounter is less than or equal to noOfMonths.

{//begin scope

//if-else statement to assign 1st, 2nd, snd 3rd to monthNo based on monthCounter.

if(monthCounter == 1)

{

monthNo ="1st";

} else if (monthCounter == 2)

{

monthNo = "2nd";

} else

{

monthNo = "3rd";

}

//print prompt 6.

System.out.printf("%nEnter the sales revenue for the %s month of the %s: ", monthNo, quarter);

salesRevenue = input.nextDouble(); // gather input for salesRevenue double.

//use combined assignment operator to add salesRevenue to quarterlySales

quarterlySales += salesRevenue;

//pre-increment monthCounter

++monthCounter;

}//end while (monthCounter <= noOfMonths)

annualSales += quarterlySales; //use combined assignment operator to add quarterlySales to annualSales

++qtrCounter;

}//end while (qtrCounter <= noOfQtrs)

input.nextLine();

//print the output for sales rep.

System.out.printf("%n%nTANDEM ENTERPRISES%n");

System.out.printf("SALES REVENUE FOR %d QUARTER(S) OF %s", noOfQtrs, dateTime.get(Calendar.YEAR));

System.out.printf("%nSALES REP: %s%n", salesRep);

System.out.printf("%nTotal Year-To-Date: $%,.2f%n",quarterlySales);

//calculate the percOfTargetRep, which determines the sales rep is on target for their projected sales.

percOfTargetRep = quarterlySales / (projectedSales/noSalesReps) \* 100;

//test if percOfTargerRep is greater than or equal to 50 if noOfQtrs is less than 4.

if(noOfQtrs <4){

if(percOfTargetRep >= 50){

//print 2

System.out.printf("%nKeep up the GOOD work, %s. There is a " + "possible year-end bonus!%n", salesRep.substring(0, salesRep.indexOf(' ')));

}else

//print 3

System.out.printf("%nSo far sales are lagging begind projections.%n");

}

}while (salesRepCtr < noSalesReps);//end do-while

percOfTargetCo = (annualSales/projectedSales)\* 100;

//print 4

System.out.printf("%nCORPORATE SALES PERFORMANCE%n");

if (percOfTargetCo >= 100){

//print 5

System.out.printf("%nIt's been a GOOD year so far. There could be a year-end bonus of about 2-5%% if we can keep on top of our sales goals. Thank you all and please continue your excellent effort!%n");

}else {

//print 6

System.out.printf("%nSales are lagging projections. A year-end bonus may not be possible.%n");

}

System.exit(0); // exit

} // end of main

} //end of class

/\* Output 1:

\* What is the projected annual sales for Tandem?500000

\*

\* How many sales reps work for Tandem?2

\*

\* Enter the name of a sales rep: Julian Caesar

\*

\* Enter the number of quarters worked (no less than 1 or greater than 4): 1

\* 1. First Quarter

\* 2. Second Quarter

\* 3. Third Quarter

\* 4. Fourth Quarter

\*

\* Choose the quarter in which sales were earned: 2

\*

\* Enter the sales revenue for the 1st month of the Second Quarter: 100000

\*

\* Enter the sales revenue for the 2nd month of the Second Quarter: 50000

\*

\* Enter the sales revenue for the 3rd month of the Second Quarter: 100000

\*

\*

\* TANDEM ENTERPRISES

\* SALES REVENUE FOR 1 QUARTER(S) OF 2023

\* SALES REP: Julian Caesar

\*

\* Total Year-To-Date: $250,000.00

\*

\* Keep up the GOOD work, Julian. There is a possible year-end bonus!

\*

\* Enter the name of the next sales rep: Monique La Femme

\*

\* Enter the number of quarters worked (no less than 1 or greater than 4): 2

\* 1. First Quarter

\* 2. Second Quarter

\* 3. Third Quarter

\* 4. Fourth Quarter

\*

\* Choose the quarter in which sales were earned: 1

\*

\* Enter the sales revenue for the 1st month of the First Quarter: 5000

\*

\* Enter the sales revenue for the 2nd month of the First Quarter: 6000

\*

\* Enter the sales revenue for the 3rd month of the First Quarter: 5000

\* 1. First Quarter

\* 2. Second Quarter

\* 3. Third Quarter

\* 4. Fourth Quarter

\*

\* Choose the next quarter in which sales were earned: 2

\*

\* Enter the sales revenue for the 1st month of the Second Quarter: 5000

\*

\* Enter the sales revenue for the 2nd month of the Second Quarter: 6000

\*

\* Enter the sales revenue for the 3rd month of the Second Quarter: 5000

\*

\*

\* TANDEM ENTERPRISES

\* SALES REVENUE FOR 2 QUARTER(S) OF 2023

\* SALES REP: Monique La Femme

\*

\* Total Year-To-Date: $32,000.00

\*

\* So far sales are lagging begind projections.

\*

\* CORPORATE SALES PERFORMANCE

\*

\* Sales are lagging projections. A year-end bonus may not be possible.

\* Output 2:

\* What is the projected annual sales for Tandem?500000

\*

\* How many sales reps work for Tandem?2

\*

\* Enter the name of a sales rep: Julian Caesar

\*

\* Enter the number of quarters worked (no less than 1 or greater than 4): 1

\* 1. First Quarter

\* 2. Second Quarter

\* 3. Third Quarter

\* 4. Fourth Quarter

\*

\* Choose the quarter in which sales were earned: 2

\*

\* Enter the sales revenue for the 1st month of the Second Quarter: 100000

\*

\* Enter the sales revenue for the 2nd month of the Second Quarter: 50000

\*

\* Enter the sales revenue for the 3rd month of the Second Quarter: 100000

\*

\*

\* TANDEM ENTERPRISES

\* SALES REVENUE FOR 1 QUARTER(S) OF 2023

\* SALES REP: Julian Caesar

\*

\* Total Year-To-Date: $250,000.00

\*

\* Keep up the GOOD work, Julian. There is a possible year-end bonus!

\*

\* Enter the name of the next sales rep: Monique La Femme

\*

\* Enter the number of quarters worked (no less than 1 or greater than 4): 2

\* 1. First Quarter

\* 2. Second Quarter

\* 3. Third Quarter

\* 4. Fourth Quarter

\*

\* Choose the quarter in which sales were earned: 1

\*

\* Enter the sales revenue for the 1st month of the First Quarter: 5000

\*

\* Enter the sales revenue for the 2nd month of the First Quarter: 6000

\*

\* Enter the sales revenue for the 3rd month of the First Quarter: 5000

\* 1. First Quarter

\* 2. Second Quarter

\* 3. Third Quarter

\* 4. Fourth Quarter

\*

\* Choose the next quarter in which sales were earned: 2

\*

\* Enter the sales revenue for the 1st month of the Second Quarter: 5000

\*

\* Enter the sales revenue for the 2nd month of the Second Quarter: 6000

\*

\* Enter the sales revenue for the 3rd month of the Second Quarter: 5000

\*

\*

\* TANDEM ENTERPRISES

\* SALES REVENUE FOR 2 QUARTER(S) OF 2023

\* SALES REP: Monique La Femme

\*

\* Total Year-To-Date: $32,000.00

\*

\* So far sales are lagging begind projections.

\*

\* CORPORATE SALES PERFORMANCE

\*

\* Sales are lagging projections. A year-end bonus may not be possible.

\* Compiler is using classPath = '[C:\Users\Frankie\Desktop\IS-2063\New folder, C:\Users\Frankie\Desktop\IS-2063\PA1\DeleonFON1PA1, C:\Users\Frankie\Desktop\drjava-beta-20190813-220051.jar]'; bootClassPath = 'null'

\*

\* What is the projected annual sales for Tandem?500000

\*

\* How many sales reps work for Tandem?2

\*

\* Enter the name of a sales rep: Julian Caesar

\*

\* Enter the number of quarters worked (no less than 1 or greater than 4): 1

\* 1. First Quarter

\* 2. Second Quarter

\* 3. Third Quarter

\* 4. Fourth Quarter

\*

\* Choose the quarter in which sales were earned: 2

\*

\* Enter the sales revenue for the 1st month of the Second Quarter: 100000

\*

\* Enter the sales revenue for the 2nd month of the Second Quarter: 50000

\*

\* Enter the sales revenue for the 3rd month of the Second Quarter: 100000

\*

\*

\* TANDEM ENTERPRISES

\* SALES REVENUE FOR 1 QUARTER(S) OF 2023

\* SALES REP: Julian Caesar

\*

\* Total Year-To-Date: $250,000.00

\*

\* Keep up the GOOD work, Julian. There is a possible year-end bonus!

\*

\* Enter the name of the next sales rep: Monique La Femme

\*

\* Enter the number of quarters worked (no less than 1 or greater than 4): 2

\* 1. First Quarter

\* 2. Second Quarter

\* 3. Third Quarter

\* 4. Fourth Quarter

\*

\* Choose the quarter in which sales were earned: 1

\*

\* Enter the sales revenue for the 1st month of the First Quarter: 25000

\*

\* Enter the sales revenue for the 2nd month of the First Quarter: 75000

\*

\* Enter the sales revenue for the 3rd month of the First Quarter: 25000

\* 1. First Quarter

\* 2. Second Quarter

\* 3. Third Quarter

\* 4. Fourth Quarter

\*

\* Choose the next quarter in which sales were earned: 2

\*

\* Enter the sales revenue for the 1st month of the Second Quarter: 10000

\*

\* Enter the sales revenue for the 2nd month of the Second Quarter: 25000

\*

\* Enter the sales revenue for the 3rd month of the Second Quarter: 30000

\*

\*

\* TANDEM ENTERPRISES

\* SALES REVENUE FOR 2 QUARTER(S) OF 2023

\* SALES REP: Monique La Femme

\*

\* Total Year-To-Date: $190,000.00

\*

\* Keep up the GOOD work, Monique. There is a possible year-end bonus!

\*

\* CORPORATE SALES PERFORMANCE

\*

\* It's been a GOOD year so far. There could be a year-end bonus of about 2-5% if we can keep on top of our sales goals. Thank you all and please continue your excellent effort!

\*/