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\* Name: Yijie Sun, Zihao Qiu

\* Course: CPSC 223J

\* Project: Project 1

\* Due date: Sept. 1st. 2016

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\* Purpose: This program read one rectangle's width and length.

\* It calculates the area and perimeter of the rectangle.

\*/

**import** java.util.\*;

**public** **class** Project1\_1 {

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

{

**float** width, length, Area, Perimeter;

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

System.***out***.print("Enter the measure of width: ");

width = read.nextFloat();

System.***out***.print("Enter the measure of length: ");

length = read.nextFloat();

Area = width \* length;

Perimeter = 2 \* (length + width);

System.***out***.printf("Area = %.2f %n", Area);

System.***out***.printf("Perimeter = %.2f %n", Perimeter);

}

}

/\* ----------output-------------------

Enter the measure of width: 23.90

Enter the measure of length: 44.01

Area = 1051.84

Perimeter = 135.82

\*/

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\* Purpose: The program reads two integers and calculate the sum and average.

\*/

**import** java.util.Scanner;

**public** **class** Project1\_2 {

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

**int** firstInt, secondInt;

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

System.***out***.print("Enter two integer numbers: ");

firstInt = read.nextInt(); secondInt = read.nextInt();

//String temp = read.next();

System.***out***.println(firstInt + " + " + secondInt + " = " + (firstInt+secondInt));

System.***out***.println("the total of "+ firstInt + " and " + secondInt + " is " + (firstInt + secondInt));

System.***out***.println("and their average is " + (firstInt + secondInt)/2);

}

}

/\* -------------output-----------------

Enter two integer numbers: 12 14

12 + 14 = 26

the total of 12 and 14 is 26

and their average is 13

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\* Purpose: The program reads three exams's scores and calculate the average

\*/

**import** java.util.Scanner;

**public** **class** Project1\_3 {

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

**int** firstScore, secondScore, thirdScore;

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

System.***out***.print("I can computer your midterm's average, try me\nEnter your scores in 3 exams:");

firstScore = read.nextInt(); secondScore = read.nextInt(); thirdScore = read.nextInt();

System.***out***.println("Your average is: " + (firstScore + secondScore + thirdScore)/3);

}

}

/\* -------------output-----------------

I can computer your midterm's average, try me

Enter your scores in 3 exams:88 79 43

Your average is: 70

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\* Purpose: the program reads your first name, mid initial and last name

\* and send a birthday card.

\*/

**import** java.util.Scanner;

**public** **class** Project1\_4 {

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

String firstName, midName, lastName;

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

System.***out***.println("Give me your name, I will send a birthday card");

System.***out***.print("What is your first name? ");

firstName = read.next();

System.***out***.print("What is your middle initial? ");

midName = read.next();

System.***out***.print("What is your last name? ");

lastName = read.next();

System.***out***.println("<<<<<<< Happy Birthday " + firstName + " " + midName + ". " + lastName + " >>>>>>>");

}

}

/\* --------------output-------------------

Give me your name, I will send a birthday card

What is your first name? Barack

What is your middle initial? H

What is your last name? Obama

<<<<<<< Happy Birthday Barack H. Obama >>>>>>>

\*/

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\* Purpose: The program displays the menu

\* and read the number of drinks, chips and nuts.

\* And calculate the total bill.

\*/

**import** java.util.Scanner;

**public** **class** Project1\_5 {

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

**float** drinks = 1.25f, chips=1.09f, nuts=1.18f;

**int** numDrinks, numChips, numNuts;

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

System.***out***.println("------------MENU---------");

System.***out***.printf("Drinks %10.2f %n", drinks);

System.***out***.printf("Chips %11.2f %n", chips);

System.***out***.printf("Nuts %12.2f %n", nuts);

System.***out***.print("How many drinks? ");

numDrinks = read.nextInt();

System.***out***.print("How many chips? ");

numChips = read.nextInt();

System.***out***.print("How many nuts? ");

numNuts = read.nextInt();

**float** total = numDrinks \* drinks + numChips \* chips + numNuts \* nuts;

System.***out***.println("Total bill = " + total);

}

}

/\* --------------output-------------------

------------MENU---------

Drinks 1.25

Chips 1.09

Nuts 1.18

How many drinks? 2

How many chips? 1

How many nuts? 2

Total bill = 5.95

\*/

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\* Purpose: The programe read Fahreheit and convert to Celsius.

\*/

**import** java.util.Scanner;

**public** **class** Project1\_6 {

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

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

**float** Fahrenheit, Celsius;

System.***out***.println("I can convert temperature from degrees Fahrenheit to degrees Celsius. Try me");

System.***out***.print("Enter a temperature in Fahrenheit: ");

Fahrenheit = read.nextFloat();

Celsius = 5\*(Fahrenheit-32)/9;

System.***out***.printf("%.0f Fahrenheit is %4.2f Celsius", Fahrenheit, Celsius);

}

}

/\* --------------output-------------------

I can convert temperature from degrees Fahrenheit to degrees Celsius. Try me

Enter a temperature in Fahrenheit: 97

97 Fahrenheit is 36.11 Celsius

\*/