Source Code for Eric Dockery program assignment #1

Problem #1

//Einstein.java.Author: Lewis/Loftus

import javax.swing.JApplet;

import java.awt.\*;

public class J\_Einstein extends JApplet {

private static final long serialVersionUID = 1L;

//--------------------------------------------------

//Draws a quotation by Alber Einstein among some shapes.

//--------------------------------------------------

public void paint(Graphics page){

page.drawRect(50, 50, 40, 40); //square

page.drawRect(60, 80, 225, 30); //rectangle

page.drawOval(275, 100, 20, 20); // circle

page.drawLine(35, 60, 100, 120); //line

page.drawString( "Out of clutter, find simplicity.", 110, 70);

page.drawString(" --Albert Einstein", 130, 100);

}

}

Problem # 2

**import** java.util.Scanner;

**public** **class** SecondCalculator {

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

{

// Make a program that will take the input from a user of hours, mins and sec, and display the total seconds

System.*out*.println("Welcome to The Second Calculator!!!");

System.*out*.println(" Please enter your time in the space below.");

// Get users hours

System.*out*.println("Hours: ");

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

**int** hours = scan\_hour.nextInt();

//Get users minutes

System.*out*.println("Minutes: ");

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

**int** min = scan\_min.nextInt();

// Get users seconds

System.*out*.println("Seconds: ");

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

**int** sec = scan\_sec.nextInt();

// Preform calculations to get total seconds

**int** total\_seconds = hours\*3600 + min \* 60 + sec;

// print the total seconds for the user to see with ending message.

System.*out*.println("You have a total of "+ total\_seconds +" seconds!");

System.*out*.println("Thank you for using The Second Calculator! \nHave a nice day.");

// close the scanners

scan\_hour.close();

scan\_min.close();

scan\_sec.close();

}

}

Problem #3

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

**public** **class** Problemthree {

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

{

// Make a program that will take the input from a user of hours, mins and sec, and display the total seconds

System.*out*.println("Welcome to The Money Total Machine!!!");

System.*out*.println(" Please enter the number of coins below.");

// Get user input for the number of Quarters

System.*out*.println("Quarters: ");

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

**int** quarters = scan\_quarters.nextInt();

//Get users input for the number of dimes

System.*out*.println("Dimes: ");

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

**int** dimes = scan\_dimes.nextInt();

// Get users input for the number of nickles

System.*out*.println("Nickles: ");

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

**int** nickles = scan\_nickles.nextInt();

// Get users input for the number of pennies

System.*out*.println("Pennies: ");

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

**int** pennies = scan\_pennies.nextInt();

// Preform calculations to get total money

**double** total\_money = (quarters \* .25) + (dimes \*.10) + (nickles \*.05) + (pennies \*.01) ;

// print the total in dollar and cents for the user to see with ending message.

System.*out*.println("You have a total of $"+(**float**)total\_money +"!");

System.*out*.println("Thank you for using The Money Total Machine! \nHave a nice day.");

// close the scanners

scan\_pennies.close();

scan\_nickles.close();

scan\_dimes.close();

scan\_quarters.close();

}

}

Problem # 4

**import** java.util.Scanner;

**public** **class** Area\_Per\_Square {

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

// Welcome the user for using the program

// General message to user asking for the side measurement of the square

System.*out*.println("Welcome to the Square Area,\n and Perimeter Calculator");

System.*out*.println("Please enter the side length for your square: ");

// take the input and calculate the area and perimeter.

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

**int** side = scan\_side.nextInt();

**int** area = side \* side;

**int** perimeter = side\*4;

// Tell the user the area and the perimeter.

System.*out*.println("Thank you calculating now...");

System.*out*.println("The area of your square is "+ area +" length." );

System.*out*.println("The perimeter of your square is "+ perimeter + " length.");

// Thank the user for using the program

System.*out*.println("Thank you for using this program!");

scan\_side.close();

}

}