

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();

}

}
```