Problem 1

*This program reads the ages of three persons from the user, and decides who is the oldest, and who the youngest person is.*

begin

import Scanner

int max = min int val, min = max int value,count = 0, age

Scanner keyboard

while count < 3{

display "Enter age: "

accept input into age

if age >= max{

max = age

}

else if age <= min{

min = age

}

count++

}

display "Max age = " + max

display "Min age = " + min

end

Problem 2

*The program that reads in the name, hourly wage and hours worked of an employee and prints the salary including overtime.*

begin

import Scanner

String name

double hourlyWage, hours, salary = 0

Scanner keyboard

display "Enter name: "

accept input into name

display "Enter hourly wage: "

accept input into hourlyWage

display "Enter hours: "

accept input into hours

if(hours <= 40){

salary = hours \* hourlyWage;

}

if(hours > 40) {

salary = (40 \* hourlyWage) + ((hours - 40) \* (hourlyWage \* 1.5));

}

display "name" + " earned $" + salary + " this week."

end

Problem 3

*The program prints the income tax based on the original US income tax of 1913.*

Begin

import Scanner

double income, tax = 0

Scanner keyboard

display “Enter income: “

accept input into income

tax = returnTax(income)

display “Tax = “ + tax

returnTax(income){

if income <= 50000 {

taxes = income \* 0.01

}

else if income > 50000 || income <= 75000{

taxes = income \* 0.02

}

else if income > 75000 || income <= 100000{

taxes = income \* 0.003

}

else if income > 100000 || income <= 250000{

tax es= income \* 0.04

}

else if income > 250000 || income <= 500000{

taxes = income \* 0.005

}

else if income > 500000{

taxes = income \* 0.06

}

return taxes

}

Problem 4

*The program asks the user to enter a month and then prints the number of days in the months.*

begin

import Scanner

int month

Scanner keyboard

display "Enter month: "

accept input into month

if month == 1 || month == 3 || month == 5 || month == 7 || month == 8 || month == 10 || month == 12{

display "31 days"

}

else if month == 4|| month == 6|| month == 9|| month == 11{

display "30 days"

}

else if month ==2{

display "28 or 29 days"

}

else {

display "Input is not acceptable"

}

end

Problem 5

*This program checks weather the inputted year is a leap year or not.*

begin

import Scanner

int year

Scanner keyboard

display "Enter year: "

accept input into year

if year % 4 == 0 && year % 100 != 0 && year % 400 == 0{

display year + " is a leap year"

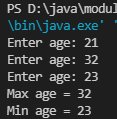
}

else {

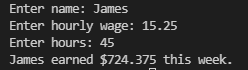
display year + " is not a leap year"

}

Problem 1



Problem 2



Problem 3



Problem 4



Problem 5





