**Critical Thinking 2**

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CSC372: Computer Programming II

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**Have correctly age:**

A screenshot of a calculator

Description automatically generated

* **Date is empty:**

A screenshot of a computer

Description automatically generated

* **Date is future**

A screenshot of a computer

Description automatically generated

import javafx.application.Application;

import javafx.geometry.Insets;

import javafx.scene.Scene;

import javafx.scene.control.Button;

import javafx.scene.control.DatePicker;

import javafx.scene.control.Label;

import javafx.scene.layout.VBox;

import javafx.stage.Stage;

import java.time.LocalDate;

import java.time.Period;

public class App extends Application {

private Label ageLabel;

@Override

public void start(Stage primaryStage) {

primaryStage.setTitle("Age Calculator");

VBox vbox = new VBox();

vbox.setPadding(new Insets(15, 15, 15, 15));

vbox.setSpacing(10);

DatePicker datePicker = new DatePicker();

datePicker.setPromptText("DD/MM/YYYY");

ageLabel = new Label();

Button calButton = new Button("Calculate");

calButton.setOnAction(e -> calculateBirthAge(datePicker));

vbox.getChildren().addAll(datePicker, calButton, ageLabel);

Scene scene = new Scene(vbox, 300, 150);

primaryStage.setScene(scene);

primaryStage.show();

}

private void calculateBirthAge(DatePicker datePicker) {

try {

LocalDate birthDate = datePicker.getValue();

if (birthDate == null) {

ageLabel.setText("Please enter a valid date");

} else if (birthDate.isAfter(LocalDate.now())) {

ageLabel.setText("Given date is in the future, which is not allowed");

} else {

LocalDate currentDate = LocalDate.now();

Period age = Period.between(birthDate, currentDate);

ageLabel.setText("Age is: " + age.getYears() + " years, "

+ age.getMonths() + " months, and "

+ age.getDays() + " days");

}

} catch (Exception ex) {

ageLabel.setText("Please enter a valid date");

}

}

public static void main(String[] args) {

launch(args);

}

}

**Github Link:** <https://github.com/rupy95/CSC372.git>