

**Call your project as lastname\_firstname\_C3\_Birthday. Zip up the folder to hand it in through Google Class Room**

### **I. Birthday Program-Human**

In this assignment, you will create a Birthday Program that makes use of the following:

- Three labels displaying the title and information requests.
- Two input text fields for name and date.
- A label to display the resulting message.
- A button.



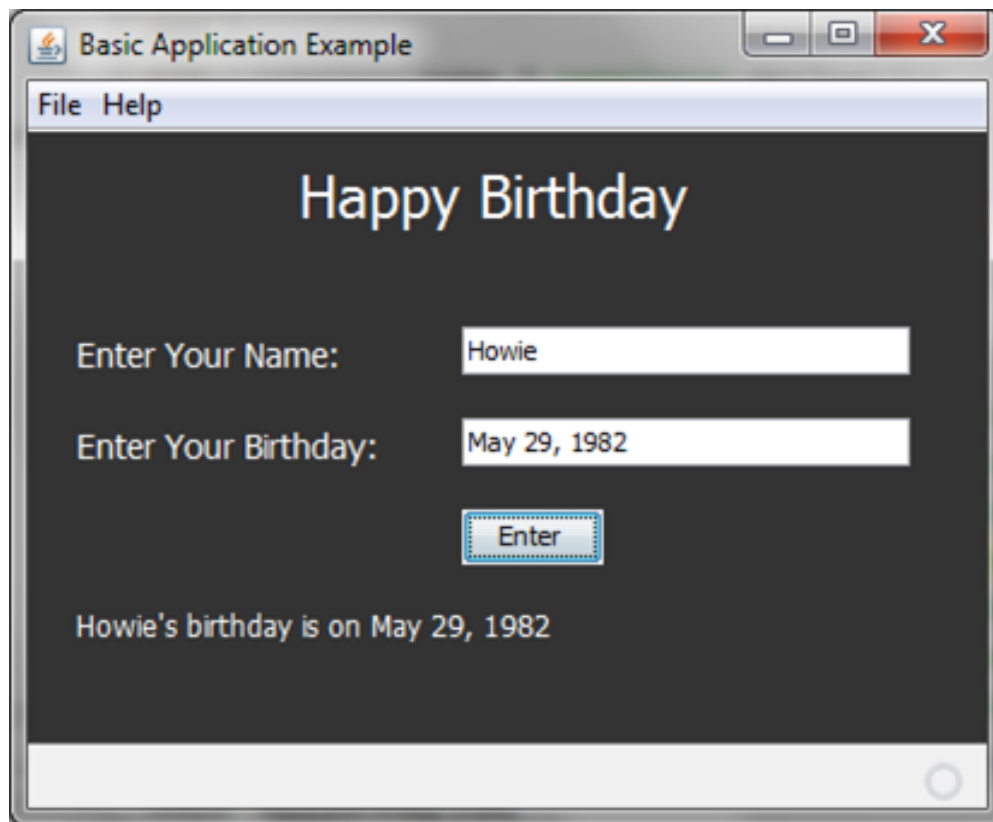
### **Enrichment**



See if you can add an image to your application. To do this, you will need to set an image file to a components icon property and the image size will have to be the same as the component size.

A sample layout for the input/output screen is shown below.

Feel free to create your own version of this screen using a different background, colour, and/or a different text font style/size. **Note:** In order to change the background colour of the form, what you need to do is create a panel object, change the background colour of the panel, and then add the components to it.



## II. Birthday Program-Dog

In this assignment, it will be very similar to the program above. However, this time you will be asking for the Name of a Dog and the Dog's age. Once the user clicks on the "Enter" button, it will display the Dog's name along with how old the Dog is in Human years. (Remember that you multiply a dog's by 7, to get the human age. For example, if a dog is 5 years old, he/she is 35 years old in human age.)

HINT: You will need to figure out how to convert the age from string to integer.

## Java S17 C3 HW 2

Write a Java Program to solve each one of the problem. Please name your project as **Q#.Java**. Save all your project into one folder called **firtsname\_lastname\_C3\_HW** and compress the file and upload in the Google Class Room

1. Write a program that assigns integer variables a,b values and print the sum, difference, product, and modulus.
2. Write a program that lets you enter the radius of a circle and that prints both the circumference and the area of the circle.
3. Write a program that lets you enter a degree measure in Fahrenheit, and that prints the result in Celsius degree measure.

Java Summer 18 Class 3 HW1 ( This week class contains 2 set of homework)

4. Write a program that lets you enter a distance in kilometers and that converts it into miles.  
 $1.6\text{km} = 1\text{mile}$
5. Write a program that lets you enter a number of hours, and that converts it to days and hours.
6. Write a program that lets you enter a number of minutes, and that will calculate the number of days, hours and minutes that represents.
7. Write a program that lets you enter the two sides of a right angled triangle, and that prints the hypotenuse.
8. Write a program that lets you enter the three sides of any triangle, and that prints the area of the triangle using Heron's formula:  $\text{Area} = (s(s-a)(s-b)(s-c))^{0.5}$  where  $s$  stands for half the perimeter, where  $s = (a+b+c) / 2$ .