

COM 102 – OBJECT ORIENTED PROGRAMMING DURING LAB Assignment#3

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1- Write a class that can convert a temperature from Celsius to Fahrenheit and from Fahrenheit to Celsius. Then, write a test application to produce an output like below.

Notes : Please, before coding draw a UML class diagram for the classes.

Also, you can use the following table when doing conversion.

	from Celsius	to Celsius
Fahrenheit	$[^{\circ}\text{F}] = [^{\circ}\text{C}] \times \frac{9}{5} + 32$	$[^{\circ}\text{C}] = ([^{\circ}\text{F}] - 32) \times \frac{5}{9}$

 [1]

Sample Output :

This program is a simple Celsius to Fahrenheit and Fahrenheit to Celsius Converter

```
*****M E N U*****
 1 - Celsius to Fahrenheit
 2 - Fahrenheit to Celsius
-1 - Exit
*****
```

```
Please enter your choice [1 , 2 , -1] :1
Please enter temperature in Celsius : 5
```

5.0C = 41.0F

```
*****M E N U*****
 1 - Celsius to Fahrenheit
 2 - Fahrenheit to Celsius
-1 - Exit
*****
```

```
Please enter your choice [1 , 2 , -1] :2
Please enter temperature in Fahrenheit : 32
```

32.0F = 0.0C

```
*****M E N U*****
 1 - Celsius to Fahrenheit
 2 - Fahrenheit to Celsius
-1 - Exit
```

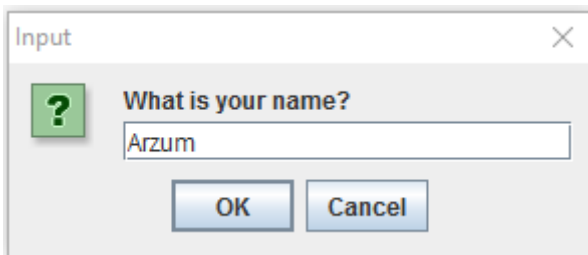
¹ Conversion of units of temperature, http://en.wikipedia.org/wiki/Conversion_of_units_of_temperature

```
Please enter your choice [1 , 2 , -1] :-1
```

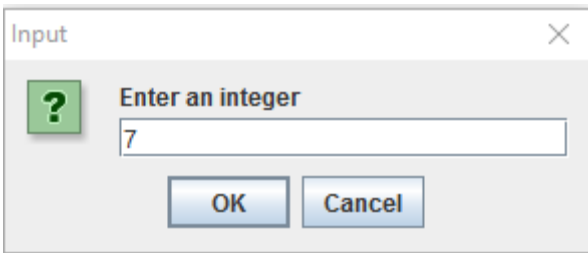
```
Exiting . . .  
Program terminated!
```

2- GUI Example: Write a Java application producing the screens following by order.

First, please ask for a name.



Next, ask for an integer number.



Then, combine the information coming from user and put it into a message like below!

