

## Sheet # 2

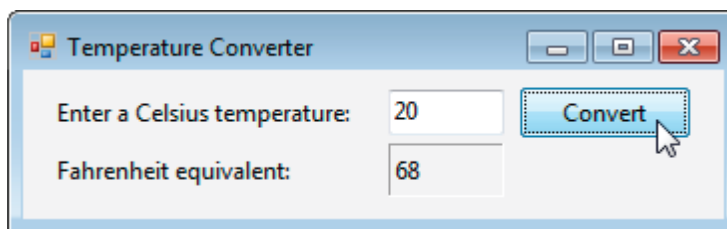
Name: \_\_\_\_\_

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**Question #1:** Write the following Programs in Visual Basic:

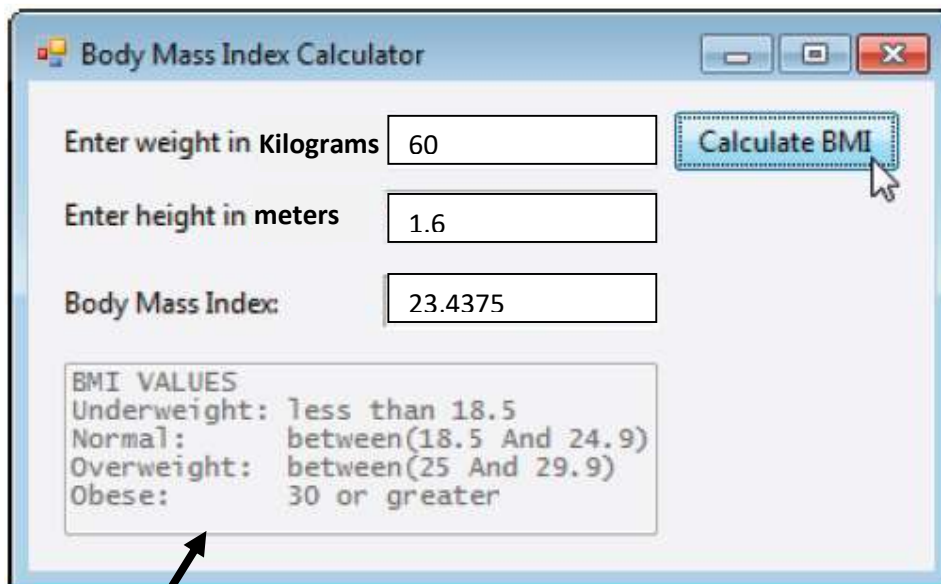
- a) (**Temperature Converter Application**) Write an application that converts a Celsius temperature,  $C$ , to its equivalent Fahrenheit temperature,  $F$ . The below figure displays the completed application. Use the following formula:

$$F = \frac{9}{5}C + 32$$



- b) (**Body Mass Index Calculator**) Create a BMI calculator application that reads the user's weight in kilograms and height in meters, then calculates and displays the user's body mass index.

$$BMI = \frac{\text{weightInKilograms}}{\text{heightInMeters} \times \text{heightInMeters}}$$



You should display this text when the form loads with the following format:

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c) (**Diameter, Circumference and Area**) Write an application that inputs from the user the radius (r) of a circle and displays the following the circle's (diameter - circumference – area) Using the following formulas:

- diameter =  $2r$
- circumference =  $2\pi r$
- area =  $\pi r^2$

Where r is the radius

Use the predefined constant keyword **Math.PI** for  $\pi$ . The following figure shows the completed application.

