6. Your science teacher has asked you to create an application that displays how much

a person would weigh on the following planets: Venus, Mars, and Jupiter. The

application’s interface should allow the user to enter the person’s weight on Earth.

a. Perform the steps involved in creating an OO application. (See the Note at the

beginning of the Exercises section.) Include a button for clearing the screen.

b. Create an application, using the following names for the solution and project,

Respectively: Planet Solution and Planet Project. Save the application in the

VB2015\Chap02 folder. Change the form file’s name to Main Form.vb. Change

the form’s name to frmMain. Code the application using the Val and Format

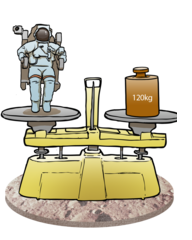
functions. One pound on Earth is equal to 0.91, 0.38, and 2.53 pounds on Venus,

Mars, and Jupiter, respectively. Add appropriate comments in the General

Declarations section and in the coded procedures. Test the application using both

valid and invalid data.

|  |  |  |
| --- | --- | --- |
| **TOE chart** | | |
| **Task**   1. Get the user weight on earth 2. Calculate a person on the following planets    1. calculate a person on Venus    2. calculate a person in Mars    3. calculate a person in Jupiter 3. Display how much a person would weight on the following planets    1. Display a person weight in Mar    2. Display a person weight in Venus    3. Display a person weight in Jupiter 4. End the application 5. Clear the application | **Objects**  txtWeightEarth  btnCalc  lblWeightMar  lblWeigthVenus  lblWeightJupiter  btnExit  btnClear | **Events**  none  click  none  none  none  click  click |



Calculate

Exit

Clear Screen

Jupiter:

Mars:

Venus:

Enter your Weight

Weight on Other Planets

**Pseudocode**

btnExit Click event procedure

end the application

btnCalc Click event procedure

1. calculate lblWeightMars = txtWeightEarth \* 0.38
2. calculate lblWeightVenus = txtWeightEarth \* 0.91
3. calculate lblWeightJupiter = txtWeightEarth rth \* 2.53

btnClear click event procedure

1. clear the content of txtWeightEarth
2. clear the content of lblWeightMars
3. clear the content of lblWeightVenus
4. clear the content of lblWeightJupiter