Farmers Fencing cc is a medium sized company specialising in the fencing of small farms. The company manufactures and erects 3 types of fences, viz. concrete, wooden and wire. The basic cost of each type of fence is indicated in the table below:

Type	Basic cost per meter
Concrete	R 15.00
Wooden	R 10.00
Wire	R 5.00

Clients may choose the height of the fence as follows: 1 meter, 1.5 meter, or 2 meter. The cost of the fencing according to the height is indicated below:

Height	Cost
1m	Basic cost * 1
1.5m	Basic cost * 1.5
2m	Basic cost * 2

Farmers Fencing cc charges labour costs according to the total meters of fencing purchased, as follows: R 3.00 per meter, irrespective of the type or height of fence required.

You have been commissioned by Farmers Fencing cc to implement a solution that will allow a potential client to obtain a quotation via their website. The user will be required to input the length and width of the land to be fenced, and will also be required to choose the height of the required fence and select the type of the fence. The output must indicate the input values and the following calculated values: total length of fence required, cost of required fencing, labour costs, sub-total, VAT amount charged (14%) and total due.

Requirements:

•Re-create the web page as it appears in figure 1. Save the file as fencing.htm.

•Write the JavaScript code to determine and display the required information – this must be triggered by a click on the Show Quote button. The display must appear in a new web page, the format for which is shown in figure 2.

•A click on the Clear Form button clears all the previous user input, including the radio buttons and the drop-down box.

•Validate the length and width to ensure that the input values are integers greater than zero. Also ensure that the user has selected the height and the type. If this is not the case, display an appropriate message to the user, indicating what error has occurred. Figure 3 represents a page in which the user has input some incorrect data. Note that if the user corrects some errors, but still has errors in other input items, the appropriate error message(s) must be cleared/reset.

•You must make use of user-defined functions in your solution.

•All currency values must be displayed to two decimal places.

Window 1

Farmers Fencing cc

Quotation for Fencing Rectangular Plot of Land

Enter details below and click on "show Quote"

Length   : [   ] m

Width   : [   ] m

Select Height
- ○ 1.0 m
- ○ 1.5 m
- ○ 2.0 m

Fence Type --Select Type-- ▼

[Show Quote] [Clear Form]

Done   Computer | Protected Mode: Off

Window 2

Farmers Fencing cc

Quotation

Valid for 30 days

Total Length of Fence	300 meters
Height of Fence	1.5 meters
Type of Fence	wooden
Cost of Fence	R 4500.00
Labour Costs	R 900.00
Sub-Total	R 5400.00
VAT	R 756.00
TOTAL DUE	R 6156.00

Window 3

Farmers Fencing cc

Quotation for Fencing Rectangular Plot of Land

Enter details below and click on "show Quote"

Length   : 100 m

Width   : A m   Error:Must be POSITIVE number> 0

Select Height
- ○ 1.0 m
- ○ 1.5 m   Error:Please select HEIGHT of Fence
- ○ 2.0 m

Fence Type --Select Type-- ▼ Error:Please select TYPE of Fence

[Show Quote] [Clear Form]

Done   Computer | Protected Mode: Off   100%