Problem Set

Create a basic webpage that will include a form for order processing.

The form will contain fields to enter:

- First Name
- Last Name
- Phone number
- Quantity of widgets to order
- Read only field to display widget price @ $4.95/each

Use regular expressions to validate these fields:

- Name will contain only alphabetic characters, spaces are legal
  - First name – 2 to 15 characters
  - Last name – 2-25 characters
- Phone number will be in (xxx) xxx-xxxx format
- Quantity of widgets to order is a number from 1-99

Total order calculations:

- Widget price is $4.95/each
- Sales tax is 8.5%
- Percentage discounts of 10% at intervals of 10 widgets ordered – 10% for every 10 ordered
  - Be sure discount is calculated before sales tax is applied
  - Maximum discount is 40%
    - 1-9 ordered – no discount
    - 10-19 ordered – 10% discount
    - 20-29 ordered – 20% discount
    - Etc…

Provide for user feedback if user entry is not formatted correctly or does not meet proper criteria.

When all fields validate properly, output order information somewhere below the form using innerHTML. Order information will include:

- Users full name and phone number
- Quantity of widgets ordered
- Information on any discounts applied
- Amount of sales tax charged
- Total of order

Write a pseudo code document outlining the processing before designing your JavaScript code.

If you choose to include CSS in your assignment, it must be in an external CSS file.

15 points available

3 points max. – code readability/formatting. Proper indenting and comments count

3 points max. – problem solving approach; code efficiency

3 points max. – solving the right problem; solution does what was specified

6 points max. – pseudo code document