Assignment 1 - Logical Program

Program 1 :

The task is print below hollow pattern of given dimension.

```
********************

*                   *

*                   *

*                   *

*                   *

********************
```

Program 2 :

```
Input : 5   If we change amount of input from 5 to 10,20 then is should work
accordingly.
```
Output:
```
* * * * *

  * * * *

    * * *

      * *

        *
```

Program 3 :

Input : 5   If we change amount of input from 5 to 10,20 then is should work accordingly.

Output:

```
* * * * *  * * * * *

* * * *      * * * *

* * *          * * *

* *              * *

*                  *

*                  *

* *              * *

* * *          * * *

* * * *      * * * *

* * * * *  * * * * *
```

Assignment 2 - Customer Order

Try to follow OOPs concept as well as MVC structure.

Following functionality will be common for all screens
- Listing: Search, Sorting, Multiple delete
- Add / Edit screen as well as Inline Edit
- Single Delete Action
- Validation

a) Customer Screen

Customer Registration :

Fields :

First name
Last name
Email
Password
Confirm Password
Mobile number
Gender
Address
DOB

Customer number should generate automatically during registration process.

Customer Login:

Email
Password

My Profile – To update the information.
Customer Number [ACC…] - unique customer number. It will generate automatically during registration process.
Customer First Name, Customer Last Name, Customer Gender
Customer Address,
Customer Email (readonly), Mobile number
Customer DOB

b) Products Screen
Filter: All | Active | Inactive, Search: Code and Name
Fields:
Product Code [**Unique Validation**], Product Name, Brand [with Add New Option], Product Price, Product Status

Product Status is Active/Inactive

c) Order Screen – Add order

DOM Architecture using Javascript / jQuery

Product Code	Price	Qty	Total	Action [Add]
P0001	500	2	1000	[Delete]
P0002	200	5	1000	[Delete]
Grand Total			**2000**	**[Submit]**

- Product deletion or modification should not affect Customer Order screen.
- Order ID – It will be generate automatically when order placed.
- Qty should be inline editable.
- Product Code – It should be dropdown for product selection.

Order Listing – added order will be listed here.

Total Orders – 2

Order ID	Date	Action
ORD0001	11/07/19	[View]
ORD0002	11/07/19	[View]

- Add Order – Display button for place new order. It will redirect to Add Order case of order screen.

Order Detail View

Order ID : ORD0001
Date : 11/07/19

Product Code	Product Name	Price	Qty	Total
P0001	ABC Product	500	2	1000
P0002	XYZ Product	200	5	1000
Grand Total				**2000**

Assignment 3 - Category

Try to follow OOPs concept as well as MVC structure.

1) Category Add Case

User is able to add the N level category from the category add screen. Main data to be taken care is as below

1. Category type
    This is radio button with selection of two type

2. Category Name

3. Category Selection with the breadcrumb as per the category inserted

Category Type   ○ Parent   ○   Child

Category Name   .   [   ]

Category   [⇩]

This will appera if the
category type is
selected 'child' other
wise it will not appear

Categories will display with the breadcrumb as below

Category 1
Category 1 > Category 1.1
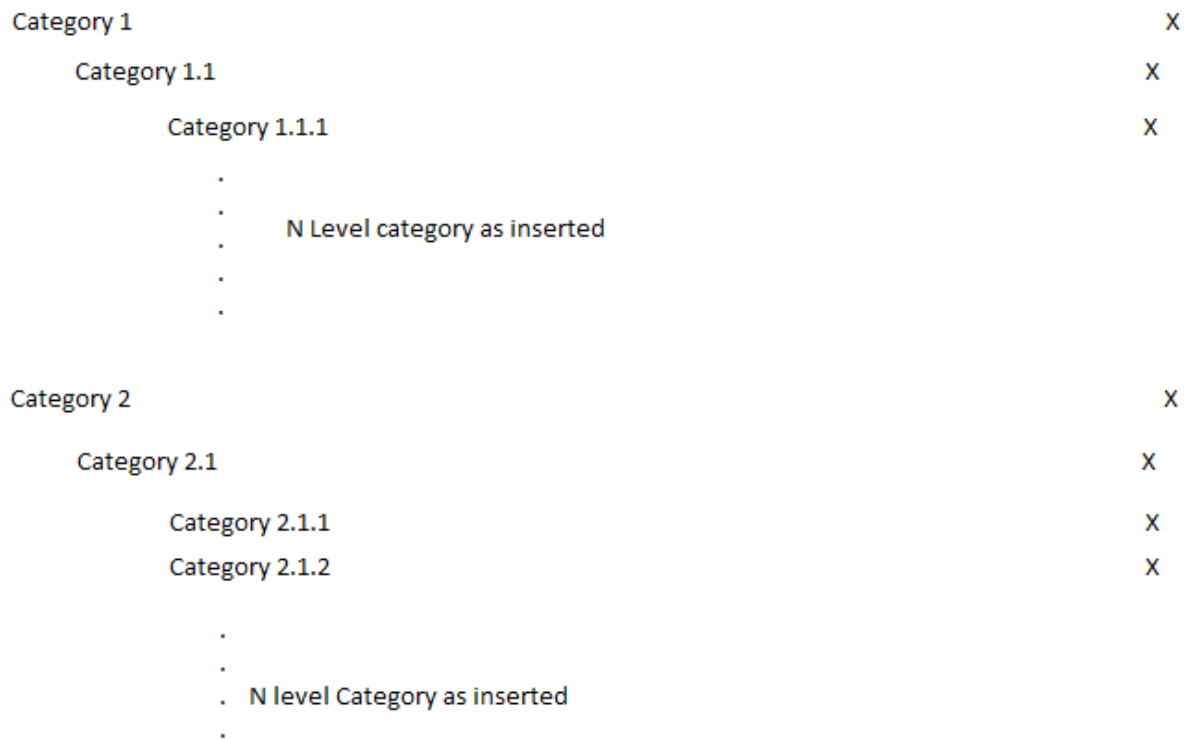Category 1 > Category 1.1 > Category 1.1.1

Category 2
Category 2 > Category 2.1
Category 2 > Category 2.1 > Category 2.1.1

Client side as well as server side validation is required.

Insert data will redirect to the view screen.

2)   Category View Case

Display category as in image. Redirection link for Add case will be at top right corner.

Category 1   X

     Category 1.1   X

         Category 1.1.1   X

.
.
.   N Level category as inserted
.
.
.

Category 2   X

     Category 2.1   X

         Category 2.1.1   X

         Category 2.1.2   X

.
.
.   N level Category as inserted
.

All the category must be display with category breadcrumb structure.

Please note you need to provide inline delete.

Edit case will open the same as in add but fill with all the details and update respective.

Use recursion for display purpose.

Assignment 4 - Mysql : We will provide questions in further updates
With reference of assignment 2.

1/ Customer order report

Description : Customer wise no. of order count and its order amount

Customer Name (Email)	No. of Orders	Total Order Amount	Product Qty Count
Total			

2/ Product report

Description : Product wise report. This will display all products and no. of order in which this product is purchased.

Product Name (Code)	No. of Orders	No. of Qty
Total		