

### Assignment-3 (Views and Blocks )

Ques 1:- Create a content type named Employee with following fields:

Employee name

Employee Description

Employee ID

Picture

Salary

Skills

Competency(taxonomy term)

soln:-

step 1:- go to structure >> content-type

Step 2 :- click on add content type and add a content named Employee with following fields

Step 3:- you need to add a taxonomy name competency , that has vocabulary named competency and have fields like

a. android b. IOS c. Drupal

Activities Google Chrome Wed 21:02

Learning | Dashboard x competency | GoyalMayank x +

localhost/local.mayank.recipies/admin/structure/taxonomy/manage/competency/overview

Apps Gmail YouTube Maps Mayank Goyal New Tab

Back to site Manage Shortcuts MayankGoyal

Content Structure Appearance Extend Configuration People Reports Help

### competency

List Edit Manage fields Manage form display Manage display

Home » Administration » Structure » Taxonomy » Edit competency

[+ Add term](#)

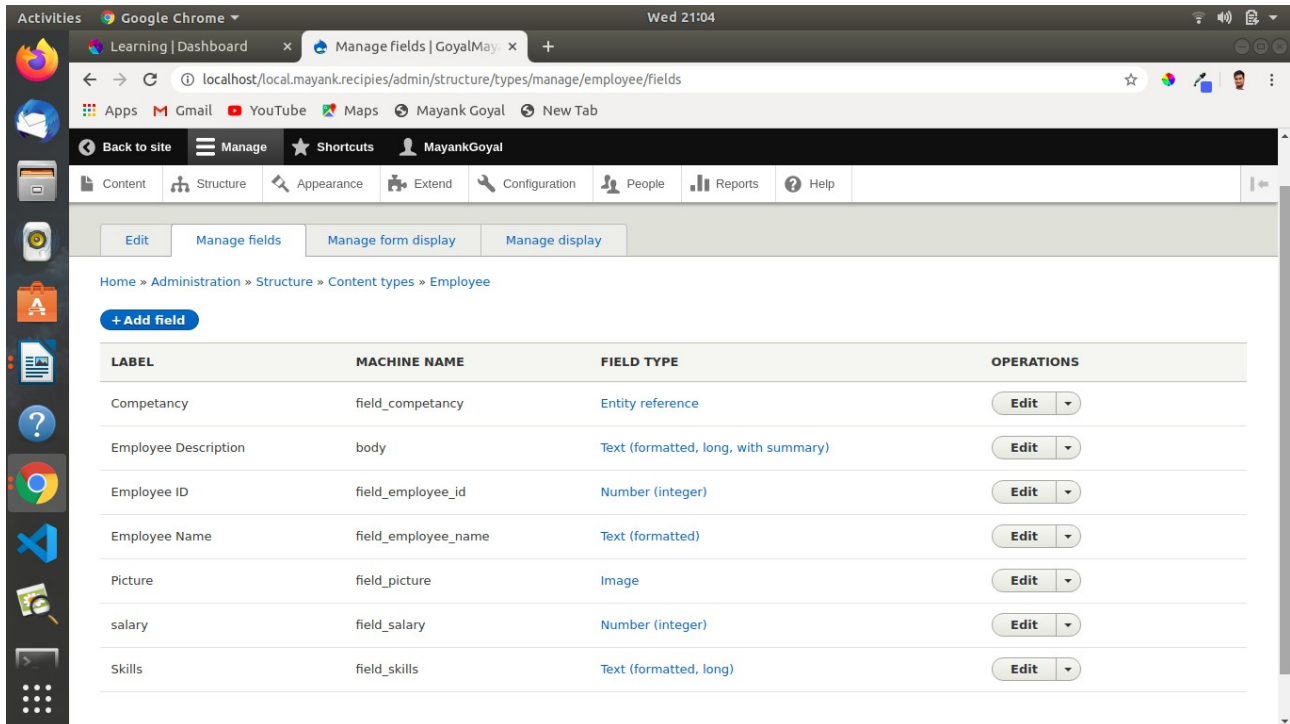
You can reorganize the terms in *Competency* using their drag-and-drop handles, and group terms under a parent term by sliding them under and to the right of the parent.

[Hide row weights](#)

NAME	OPERATIONS	WEIGHT
Android	<a href="#">Edit</a>	0
Drupal	<a href="#">Edit</a>	0
IOS	<a href="#">Edit</a>	0

[Save](#) [Reset to alphabetical](#)

step 4: - your table will now contain the following structure :-



LABEL	MACHINE NAME	FIELD TYPE	OPERATIONS
Competency	field_competancy	Entity reference	<a href="#">Edit</a>
Employee Description	body	Text (formatted, long, with summary)	<a href="#">Edit</a>
Employee ID	field_employee_id	Number (integer)	<a href="#">Edit</a>
Employee Name	field_employee_name	Text (formatted)	<a href="#">Edit</a>
Picture	field_picture	Image	<a href="#">Edit</a>
salary	field_salary	Number (integer)	<a href="#">Edit</a>
Skills	field_skills	Text (formatted, long)	<a href="#">Edit</a>

step 5: - Add some contents to the table

Ques 2 :- .Create a block programmatically listing all employee name and Employee ID.

Step 1:- under custom folder create a block let say the block myblock

step 2:- inside this folder create a file of myblock.info.yml and add the following code :-

```
name: Myblock
type: module
description: Defines a custom block.
core: 8.x
package: custom
dependencies:
  - block
```

Step 3 :- create a folder named src

step 4:- create a subfolder named plugin that contains another subfolder named Block

Step 5:- Inside the folder Block create a file named myblock.php and add the following code :-

```
<?php
```

```
namespace Drupal\myblock\Plugin\Block;
```

```
use Drupal\Core\Access\AccessResult;
```

```

use Drupal\Core\Block\BlockBase;
use Drupal\Core\Form\FormStateInterface;
use Drupal\Core\Session\AccountInterface;

/**
 * Provides a block with a simple text.
 *
 * @Block(
 *   id = "myblock_block",
 *   admin_label = @Translation("My block"),
 * )
 */
class MyBlock extends BlockBase {
  /**
   * {@inheritdoc}
   */
  public function build() {
    $query = \Drupal::entityQuery('node')->condition('status', 1); //content type
    $nids = $query->execute();
    $url = '<table>';
    $url .= "<tr><td><b>" . "Node ID" . "</td><td><b>" . "Node Name" . "</td></tr>";
    foreach ($nids as $nid) {
      $node = \Drupal\node\Entity\Node::load($nid);
      $body = $node->body->value;
      $title = $node->title->value;
      $type = $node->type->value;
      $url .= "<tr><td>" . $nid . "</td><td>" . $node->title->value . "</td></tr>";
    }
    $url .= "</table>";
    return [
      '#markup' => $url,
    ];
  }

  /**
   * {@inheritdoc}
   */
  protected function blockAccess(AccountInterface $account) {
    return AccessResult::allowedIfHasPermission($account, 'access content');
  }

  /**
   * {@inheritdoc}
   */
  public function blockForm($form, FormStateInterface $form_state) {
    $config = $this->getConfiguration();

    return $form;
  }

  /**

```

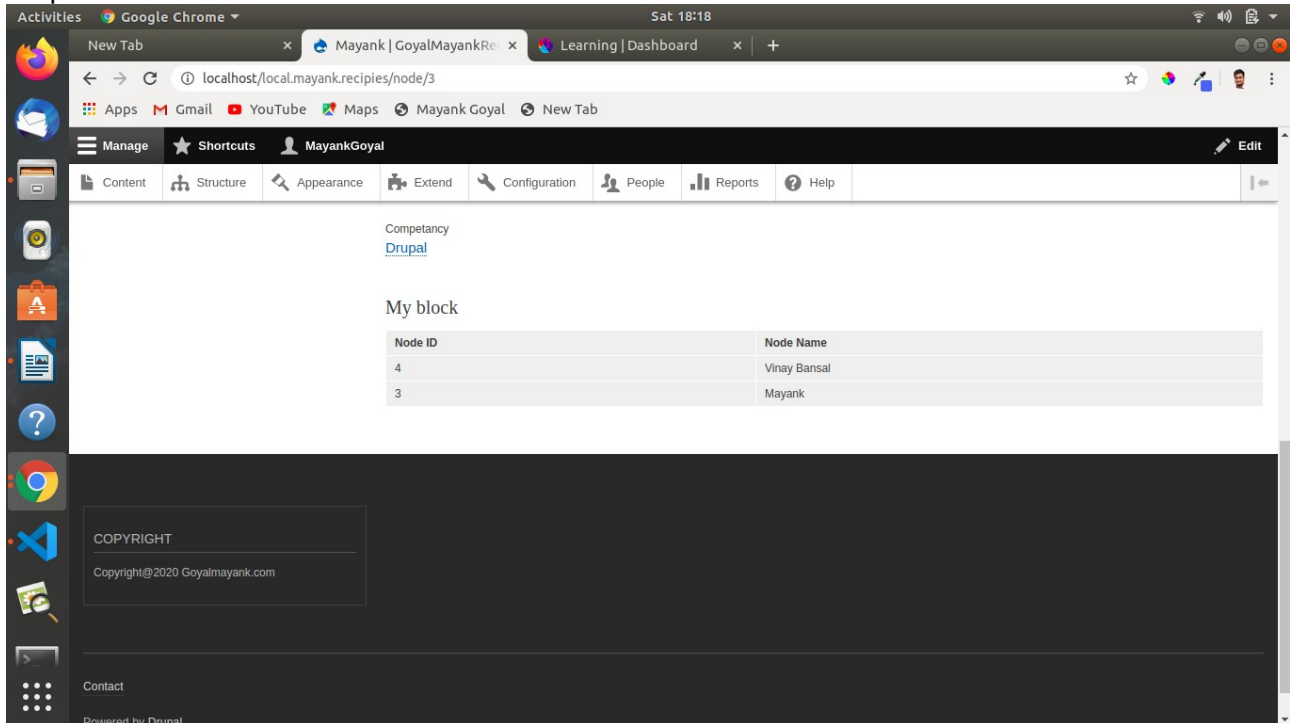
```

* {@inheritdoc}
*/
public function blockSubmit($form, FormStateInterface $form_state) {
$this->configuration['my_block_settings'] = $form_state->getValue('my_block_settings');
}
}

```

Step 6:- install the module and place your block at desired position and clear the cache

step 7:-



Ques 3 :- Create a view block of employee content type showing employee name and competency in grid format with 3 columns and group them on the basis of competency.

Soln :-

Step 1:- Go to structure >> views

Step 2:- create a view named employee details

The screenshot shows the 'Add view' form in the Mayank Goyal admin interface. The browser address bar shows 'localhost/local.mayank.recipies/admin/structure/views/add'. The form is titled 'Add view' and has a breadcrumb trail: 'Home » Administration » Structure » Views'. The form is divided into four sections: 'VIEW BASIC INFORMATION', 'VIEW SETTINGS', 'PAGE SETTINGS', and 'BLOCK SETTINGS'. In 'VIEW BASIC INFORMATION', the 'View name' field is empty, and the 'Description' checkbox is unchecked. In 'VIEW SETTINGS', 'Show' is set to 'Content', 'of type' is 'All', 'tagged with' is empty, and 'sorted by' is 'Newest first'. In 'PAGE SETTINGS', the 'Create a page' checkbox is unchecked. In 'BLOCK SETTINGS', the 'Create a block' checkbox is unchecked.

Step 3 :-  
set page title

select format as grid , and no of columns as 3

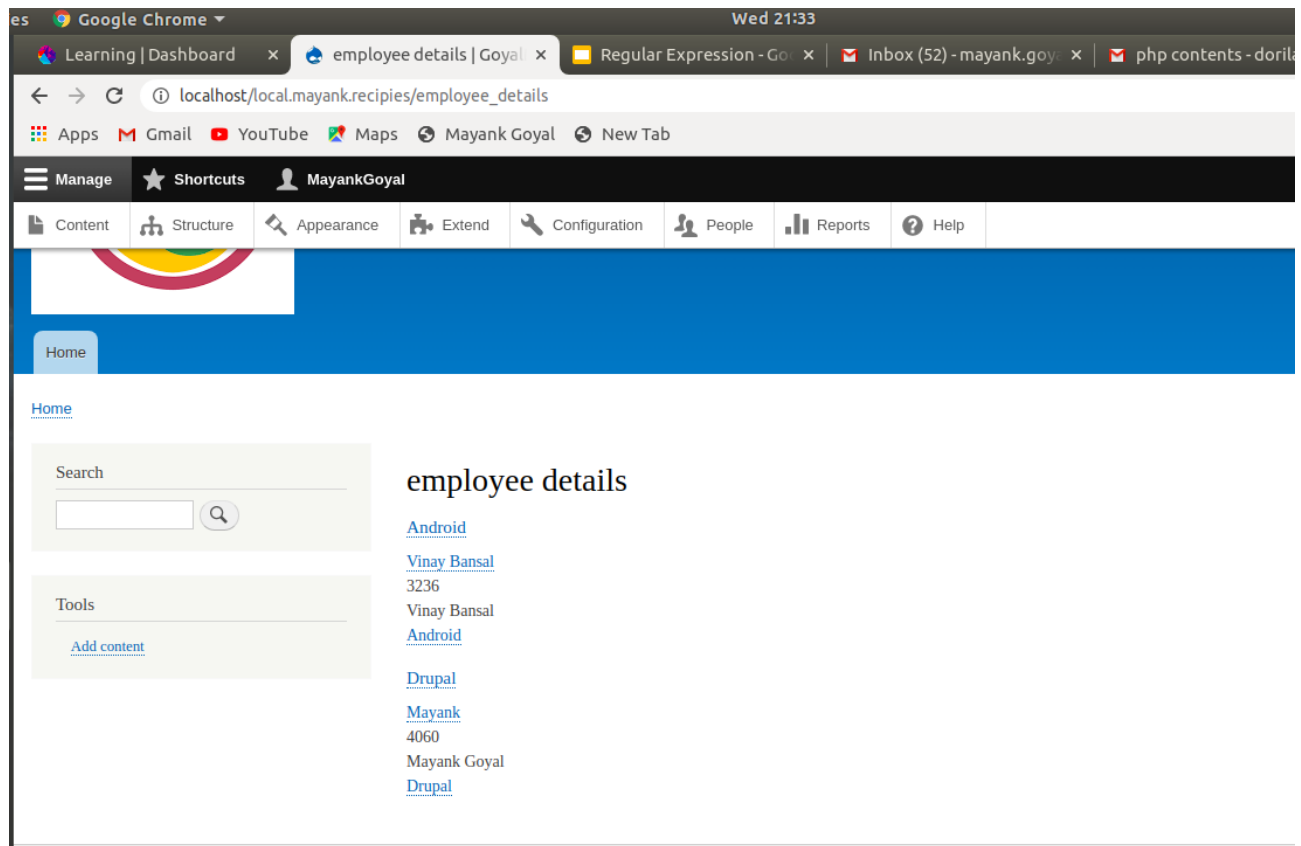
and set show fields option

inside field section add all the fields you want to show

in field sorting criteria choose employee id and sort it in ascending manner

The screenshot shows the 'Display name: Block' configuration page in the Mayank Goyal admin interface. The page has a breadcrumb trail: 'Back to site » Manage » Shortcuts » MayankGoyal'. The page is divided into two main sections: 'TITLE' and 'BLOCK SETTINGS'. The 'TITLE' section has a 'Title' field set to 'employee details'. The 'BLOCK SETTINGS' section has several fields: 'Block name' (None), 'Block category' (Lists (Views)), 'Allow settings' (Items per page), 'Access' (Permission | View published content), 'HEADER' (Add), 'FOOTER' (Add), 'NO RESULTS BEHAVIOR' (Add), 'PAGER' (Use pager: Full | Paged, 5 items), 'More link' (No), and 'Link display' (None). There are also sections for 'FORMAT', 'FIELDS', 'FILTER CRITERIA', and 'SORT CRITERIA'. The 'FORMAT' section has 'Format' set to 'Grid' and 'Show' set to 'Fields'. The 'FIELDS' section has 'Content' set to 'Title', 'Employee ID', 'Employee Name', and 'Competency'. The 'FILTER CRITERIA' section has 'Content' set to 'Published (= Yes)' and 'Content type (= Employee)'. The 'SORT CRITERIA' section has 'Content' set to 'Employee ID (asc)'.

now on the type localhost\local.goyalmayankrecipies.com\ employee\_Details



Ques 4 :- List the naming conventions for views templates for views created in question 5 and question 6.

sol : {Doubt}

Ques 5 :- Create a view page of employee content type in a table format with Employee name, Employee ID and salary as header

1. Sort it on the basis of Employee ID
2. Trim the Employee Description field to 50 characters.
3. Add header "Total Records found : total"
4. Expose the filter for employee name
5. Expose the filter for employee id (use Between)

Soln: -

Activities Google Chrome Wed 21:44

Learning | Dashboard x tabemp (Content) | Goye x Regular Expression - Go x Inbox (52) - mayank.goye x php contents - dorila50 x +

localhost/local.mayank.recipies/admin/structure/views/view/tabemp?destination=/local.mayank.recipies/admin/structure/views

Back to site Manage Shortcuts MayankGoyal Tour

Content Structure Appearance Extend Configuration People Reports Help

Display name: Page View Page

**TITLE**  
Title: tabemp

**FORMAT**  
Format: Table Settings

**FIELDS** Add

- Content: Title (Title)
- Content: Employee ID (Employee ID)
- Content: Employee Name (Employee Name)
- Content: salary (Salary)

**FILTER CRITERIA** Add

- Content: Published (= Yes)
- Content: Content type (= Employee)
- Content: Employee ID (exposed)
- Content: Employee Name (exposed)

**SORT CRITERIA** Add

- Content: Employee ID (asc)

**PAGE SETTINGS**

Path: /tabemp

Menu: No menu

Access: Permission View published content

**HEADER** Add

total contents in this page are (total contents in this page are)

**FOOTER** Add

**NO RESULTS BEHAVIOR** Add

**PAGER**

Use pager: Mini Mini pager, 10 items

More link: No

ADVANCED

Regular Expr....pdf Introduction....pptx MongoDB.pptx.pdf MySQL.pptx.pdf Introducing P....pdf Show all x

Activities Google Chrome Wed 21:44

Learning | Dashboard x tabemp (Content) | Goye x Regular Expression - Go x Inbox (52) - mayank.goye x php contents - dorila50 x +

localhost/local.mayank.recipies/admin/structure/views/view/tabemp?destination=/local.mayank.recipies/admin/structure/views

Back to site Manage Shortcuts MayankGoyal Tour

Display name: Configure filter criterion: Content: Employee Name (field\_employee\_name) View Page

**TITLE**  
Title: tabemp

**FORMAT**  
Format: Table

**FIELDS**

- Content: Title (Title)
- Content: Employee ID (Employee ID)
- Content: Employee Name (Employee Name)
- Content: salary (Salary)

**FILTER CRITERIA**

- Content: Published (= Yes)
- Content: Content type (= Employee)
- Content: Employee ID (exposed)
- Content: Employee Name (exposed)

**SORT CRITERIA**

- Content: Employee ID (asc)

**For**  
This page (override)

**Label**  
Employee Name (field\_employee\_name)

**Description**

**Operator**  
Is not empty (NOT NULL)

☐ Expose operator  
Allow the user to choose the operator.

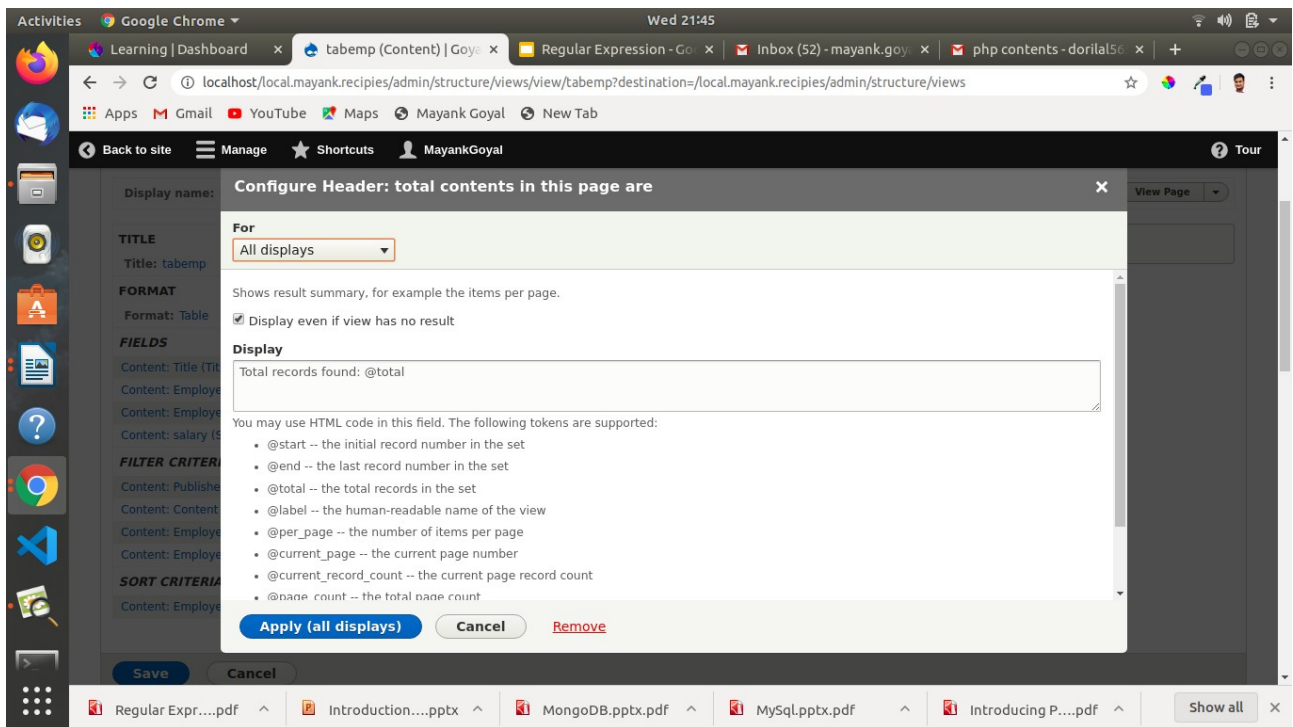
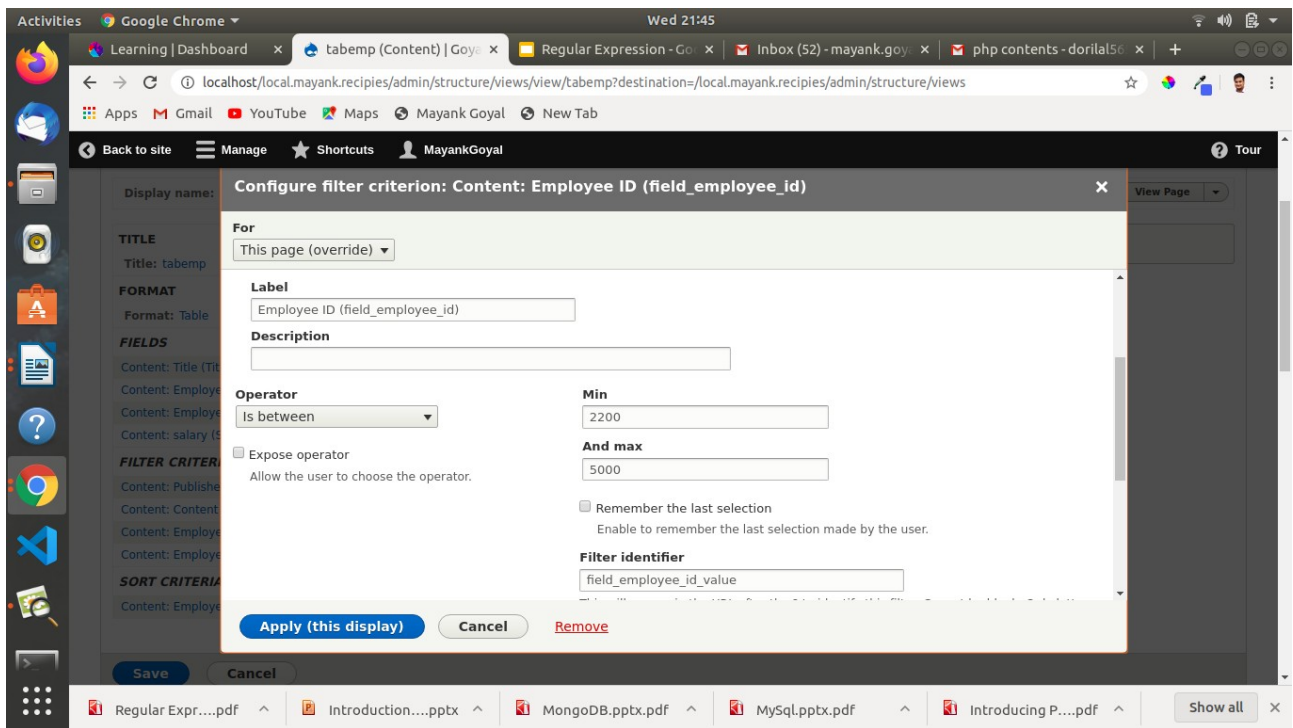
☐ Remember the last selection  
Enable to remember the last selection made by the user.

**Filter identifier**  
field\_employee\_name\_value  
This will appear in the URL after the ? to identify this filter. Cannot be blank. Only letters, digits and the dot ("."), hyphen ("-"), underscore ("\_"), and tilde ("~") characters are allowed.

Apply (this display) Cancel Remove

Regular Expr....pdf Introduction....pptx MongoDB.pptx.pdf MySQL.pptx.pdf Introducing P....pdf Show all x





Now the page is ready to view



Activities Google Chrome Wed 21:50

Learning | Dashboard x tabemp | GoyalMayankR x Regular Expression - Go x Inbox (52) - mayank.goy x php contents - dorila50 x +

localhost/local.mayank.recipies/tabemp?field\_employee\_id\_value%5Bmin%5D=2200&field\_employee\_id\_value%5Bmax%5D=4000

Apps Gmail YouTube Maps Mayank Goyal New Tab

Manage Shortcuts MayankGoyal Edit

Content Structure Appearance Extend Configuration People Reports Help

Home

Home

Search

Tools

Add content

### tabemp

Total records found: 1

Employee ID (field\_employee\_id) And

2200 4000

Apply

Title	Employee ID	Employee Name	Salary
Vinay Bansal	3236	Vinay Bansal	45000

Regular Expr....pdf Introduction....pptx MongoDB.pptx.pdf MySQL.pptx.pdf Introducing P....pdf Show all x

Activities Google Chrome Wed 21:51

Learning | Dashboard x tabemp | GoyalMayankR x Regular Expression - Go x Inbox (52) - mayank.goy x php contents - dorila50 x +

localhost/local.mayank.recipies/tabemp?field\_employee\_id\_value%5Bmin%5D=3500&field\_employee\_id\_value%5Bmax%5D=4500

Apps Gmail YouTube Maps Mayank Goyal New Tab

Manage Shortcuts MayankGoyal Edit

Content Structure Appearance Extend Configuration People Reports Help

Home

Home

Search

Tools

Add content

### tabemp

Total records found: 1

Employee ID (field\_employee\_id) And

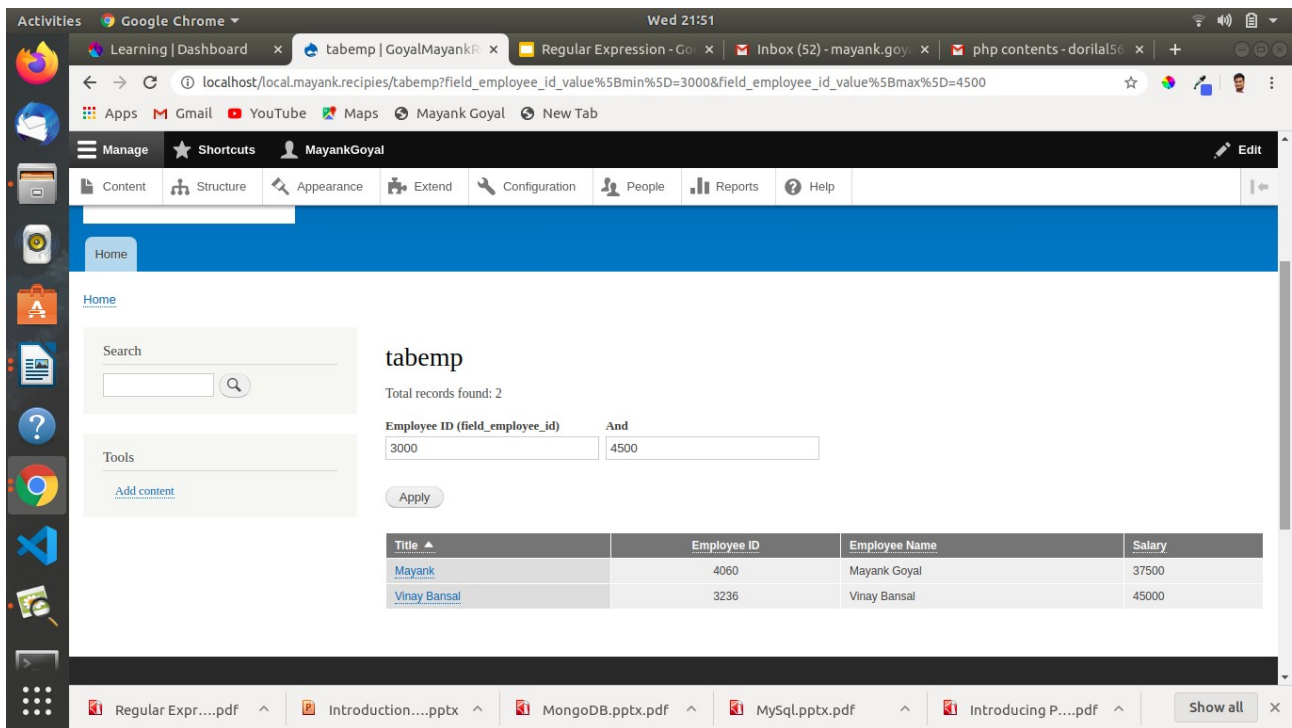
3500 4500

Apply

Title	Employee ID	Employee Name	Salary
Mayank	4060	Mayank Goyal	37500

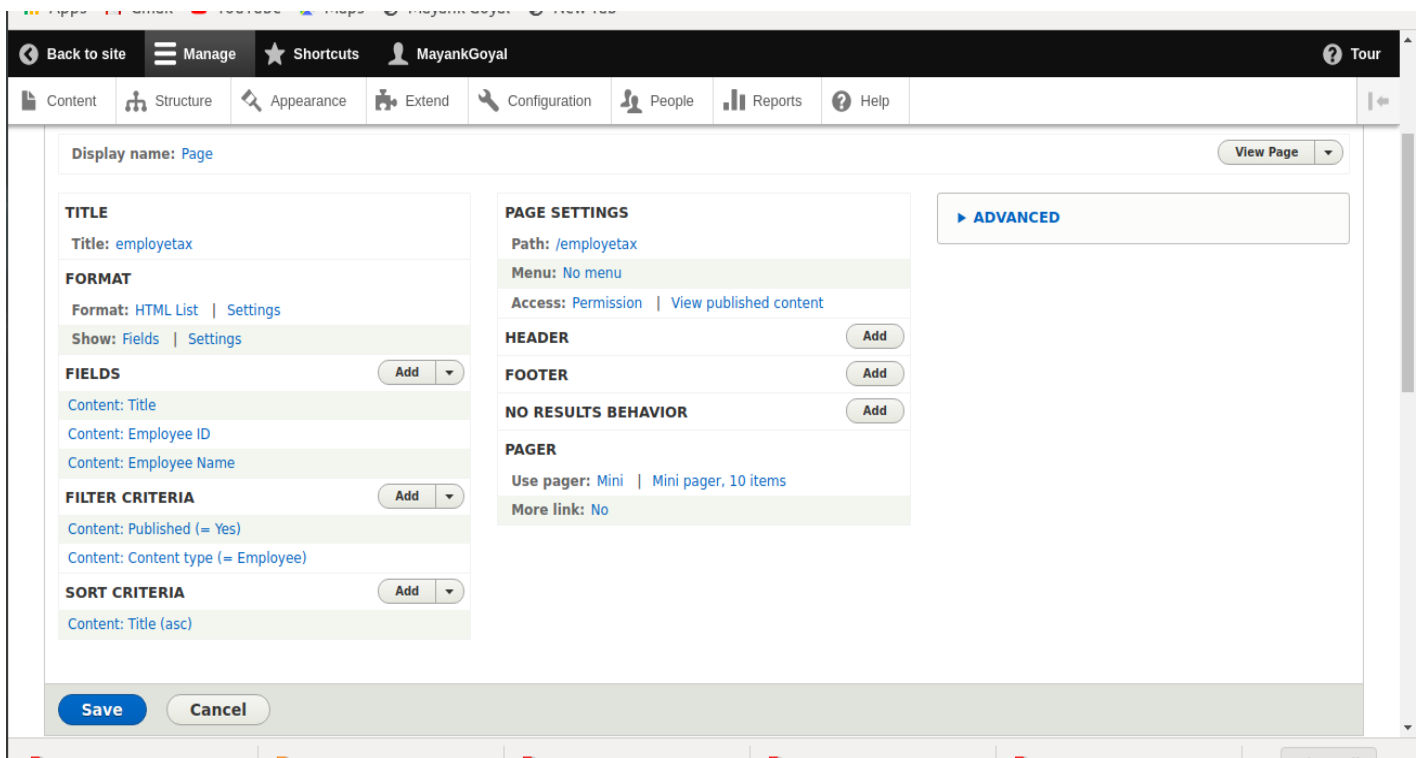
COPYRIGHT

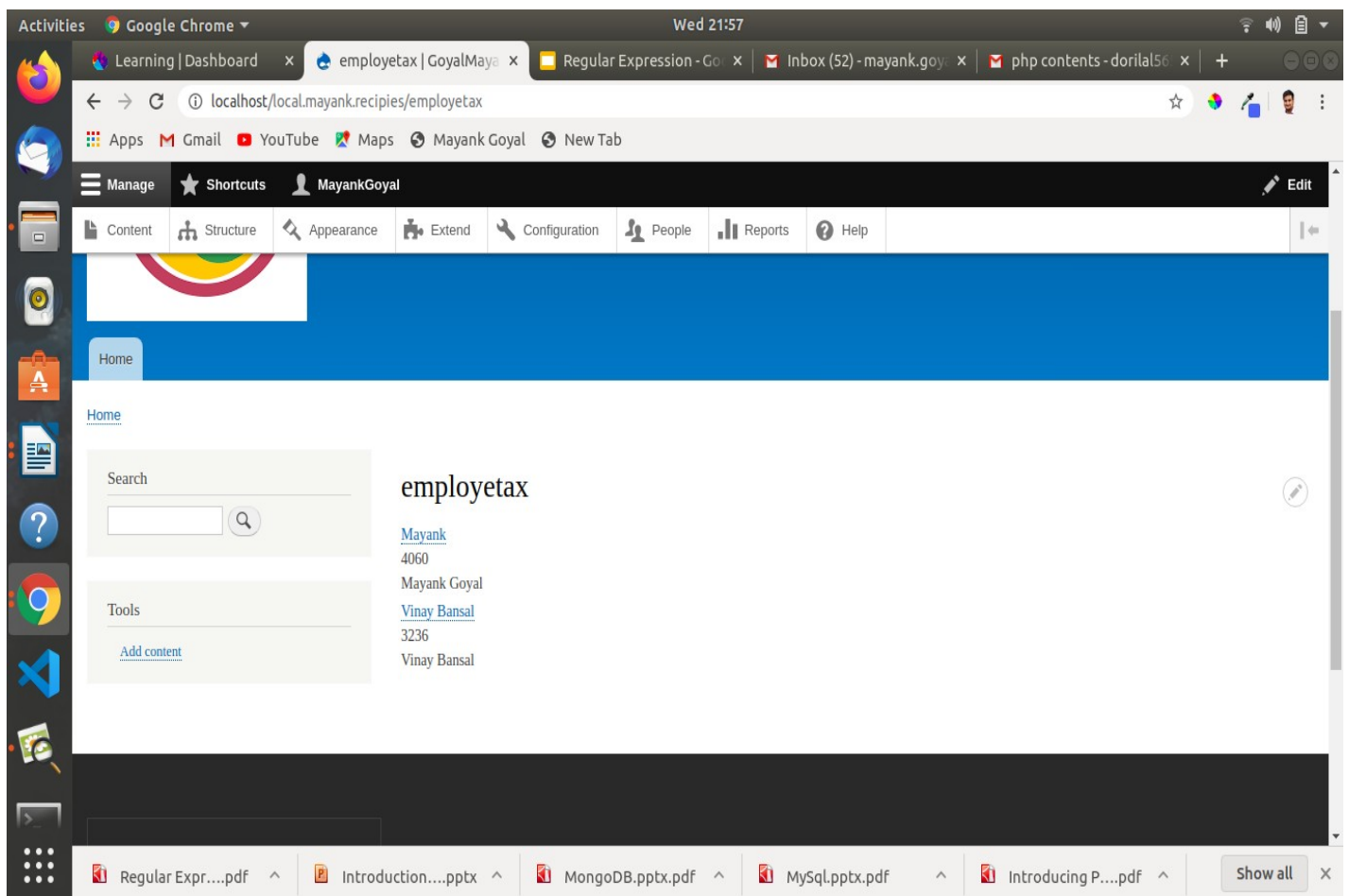
Regular Expr....pdf Introduction....pptx MongoDB.pptx.pdf MySQL.pptx.pdf Introducing P....pdf Show all x



Ques 6:-Create a view to show the Employee details(name,id) in HTML List on the basis of competency(taxonomy term id)

Soln :-





Ques 7 :- Create a view listing Employee name based on node id and show it on employee content type.  
Note: The title(employee name) should be excluded in which the view is placed.

Activities Google Chrome Wed 11:10

New Tab x Learning | Dashboard x Inbox (80) - mayank.goy... x Drupal\_Exercise/vb.odt x q7 (Content) | GoyalMay x +

localhost/local.mayank.recipies/admin/structure/views/view/q7?destination=/local.mayank.recipies/admin/structure/views

Apps Gmail YouTube Maps Mayank Goyal New Tab

Back to site Manage Shortcuts MayankGoyal Tour

Content Structure Appearance Extend Configuration People Reports Help

Show: Fields Settings

**FIELDS** Add

- Content: Title
- Content: Employee Name (Employee Name)
- Content: Employee ID (Employee ID)
- Content: Content type (Content Type)
- Content: ID (NODE ID :)

**FILTER CRITERIA** Add

- Content: Published (= Yes)

**SORT CRITERIA** Add

- Content: Authored on (desc)
- Content: Employee ID (asc)

**HEADER** Add

**FOOTER** Add

**NO RESULTS BEHAVIOR** Add

**PAGER**

Use pager: Mini | Mini pager, 10 items

More link: No

Save Cancel

**Preview** Auto preview

Preview with contextual filters: Update preview

Separate contextual filter values with a "/". For example, 40/12/10.

Activities Google Chrome Wed 11:10

New Tab x Learning | Dashboard x Inbox (80) - mayank.goy... x Drupal\_Exercise/vb.odt x q7 (Content) | GoyalMay x +

localhost/local.mayank.recipies/admin/structure/views/view/q7?destination=/local.mayank.recipies/admin/structure/views

Apps Gmail YouTube Maps Mayank Goyal New Tab

Back to site Manage Shortcuts MayankGoyal Tour

Content Structure Appearance Extend Configuration People Reports Help

You have unsaved changes

**Displays**

Page\* Block

Display name:

**TITLE**

Title: q7

**FORMAT**

Format: HTML

Show: Fields

**FIELDS**

- Content: Title
- Content: Employee Name (Employee Name)
- Content: Employee ID (Employee ID)
- Content: Content type (Content Type)
- Content: ID (NODE ID :)

**FILTER CRITERIA**

- Content: Published (= Yes)

**SORT CRITERIA**

- Content: Authored on (desc)
- Content: Employee ID (asc)

**Configure contextual links**

For This page (override)

**WHEN THE FILTER VALUE IS IN THE URL OR A DEFAULT IS PROVIDED**

☒ Override title

Override the view and other argument titles. You may use Twig syntax in this field.

☐ Specify validation criteria

**REPLACEMENT PATTERNS**

**ADMINISTRATIVE TITLE**

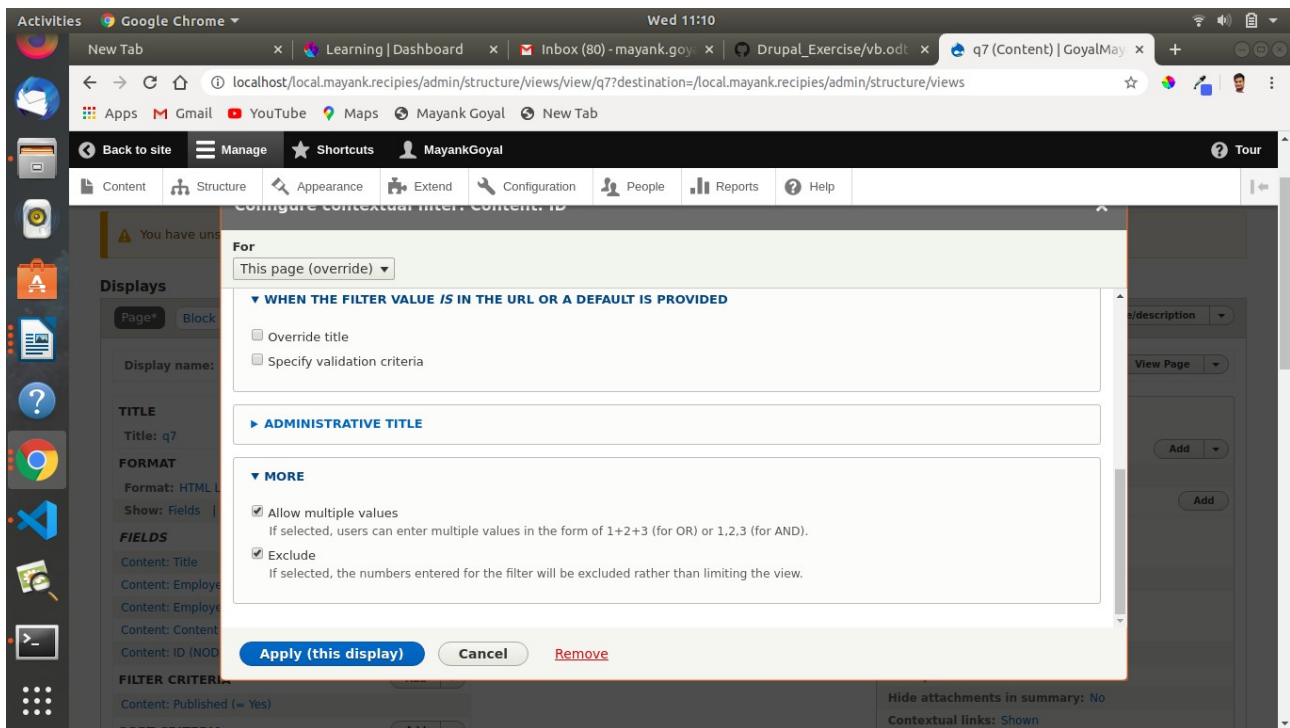
**MORE**

☒ Allow multiple values

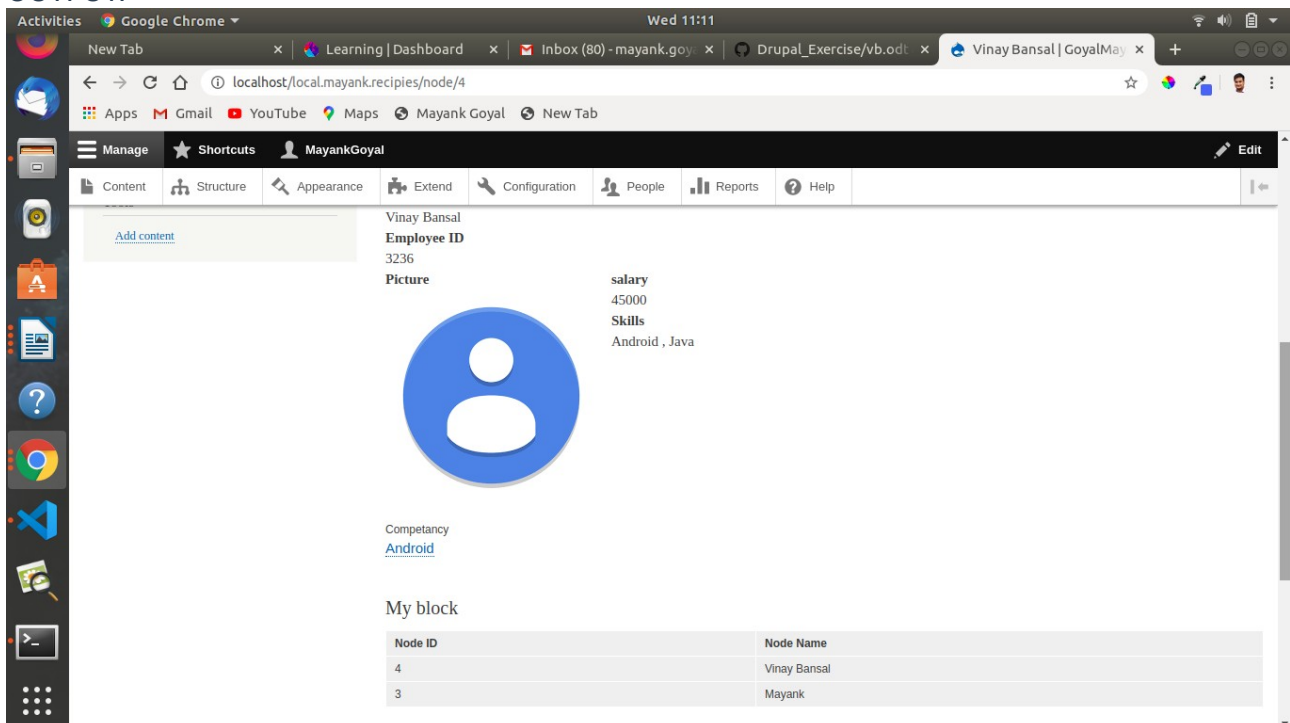
Apply (this display) Cancel Remove

Hide attachments in summary: No

Contextual links: Shown



## OUTPUT:-



ques 8:-

soln: -

step1:- goto the modules >> custom

step 2:- create a folder named forms

step 3:- create the forms.info.yml file and add the following code :-

name: Forms  
description: My Form  
type: module  
core: 8.x

step 4:- create the forms.routing.yml file and add the following code:-

```
custom_form.custom_form:  
  path: 'forms'  
  defaults:  
    _form: '\Drupal\forms\Forms\CustomForm'  
    _title: 'form'  
  requirements:  
    _permission: 'access content'
```

step 5 create the src folder and create a file named customForm.php and add the following code :-

```
<?php  
namespace Drupal\form\Form;  
use Drupal\Core\Form\FormBase;  
use Drupal\Core\Form\FormStateInterface;  
/**  
 * Our simple form class.  
 */  
class CustomForm extends FormBase {  
  /**  
   * {@inheritdoc}  
   */  
  public function getFormId() {  
    return 'drupalup_simple_form';  
  }  
  /**  
   * {@inheritdoc}  
   */  
  public function buildForm(array $form, FormStateInterface $form_state) {  
    $form['name'] = [  
      '#type' => 'textfield',  
      '#title' => $this->t('Enter Your Name Please'),  
    ];  
    $form['phone'] = [  
      '#type' => 'textfield',  
      '#title' => $this->t('Enter Phone Your number Please'),  
    ];  
    $form['submit'] = [  

```

```

'#type' => 'submit',
'#value' => $this->t('Submit'),
];
return $form;
}
/**
 * {@inheritdoc}
 */
public function submitForm(array &$form, FormStateInterface $form_state) {
drupal_set_message('Name=> '.$form_state->getValue('name').' Mobile Number=> '.$form_state->getValue('phone'));
return [
'#type' => 'markup',
'#markup' => $form_state,
];
}
}
}

```

