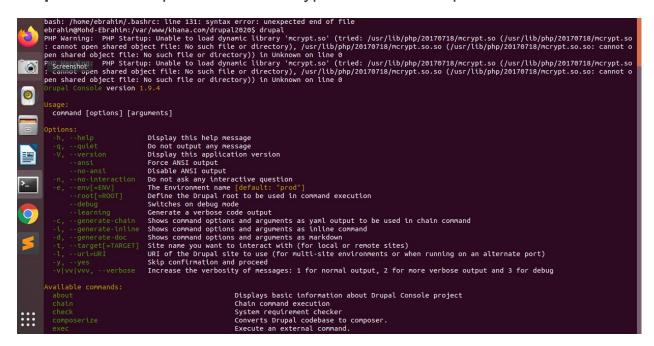
# **Assignment Custom Entity**

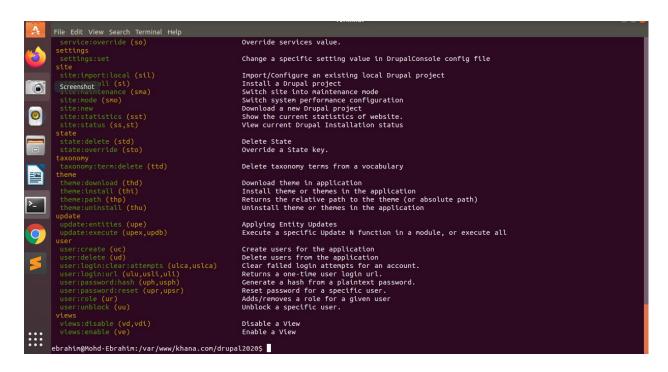
## Q1. Create a Custom Entity having the following fields:

- Name
- Email
- Contact number

#### Ans:-

### Step1: install drupal console and type command drupal





Step2: create custom module using \$ drupal gm command

```
drupal: compand not found
enthalgehold-printle; /or /owo/khana.com/drupal20205 drupal gn
PPP Warning; PHP Startup; Unable to load dynamic library incrypt.so (/usr/lib/php/20170718/ncrypt.so.so (/usr/lib/php/20170718/ncrypt.so.so (/usr/lib/php/20170718/ncrypt.so.so cannot o
pen shared object file: No such file or directory), /usr/lib/php/20170718/ncrypt.so.so (/usr/lib/php/20170718/ncrypt.so.so cannot o
pen shared object file: No such file or directory) in Unknown on line 0
Pricemanhol: In the Startup; Unable to load dynamic library ncrypt.so (/usr/lib/php/20170718/ncrypt.so.so cannot o
pen shared object file: No such file or directory)
pen shared object file: No such file or directory)
In Unknown on line 0

// Welcome to the orugal module generator
Enter the nodule nachine name [question]:

- unstant the module machine name [question]:

- inter nodule description [Ny Awesone Module]:

- inter nodule description [Ny Awesone Module]:

- this is ny first question

- inter package name [Custon]:

- no

- on you want to generate a unit test class? (yes/no) [yes]:

- no

- no you want to generate a unit test class? (yes/no) [yes]:

- no

- no you want to generate a themeable template? (yes/no) [yes]:

- no

- no you want to generate a themeable template? (yes/no) [yes]:

- no

- no you want to generate a themeable template? (yes/no) [yes]:

- no

- no

- no

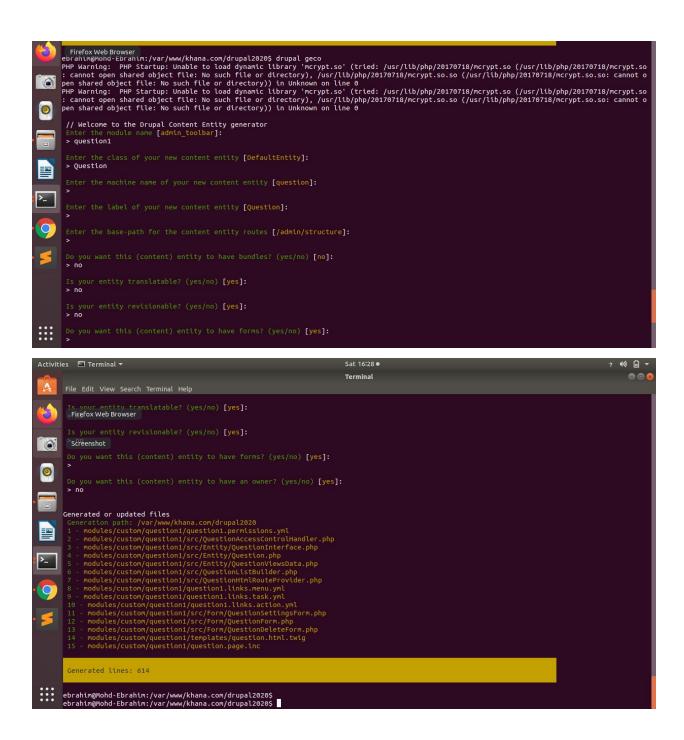
- no

- no you want to generate a themeable template? (yes/no) [yes]:

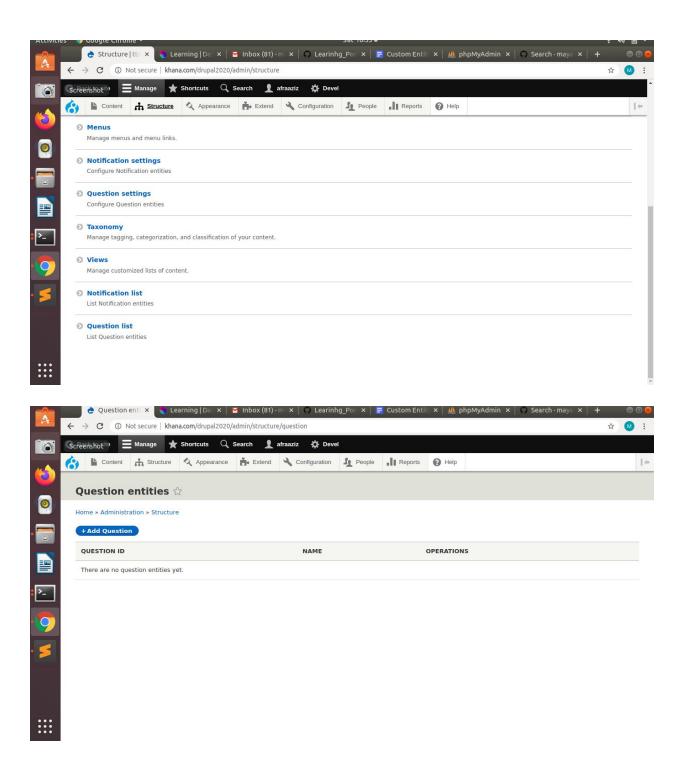
- no

- no
```

Step3: create a custom entity using \$ drupal geco command.



Now go website and install question1 module and clear all cache.



To add fields email and contact

Go >question1 module>src>Entity>Question.php file and change the following.

```
<?php
namespace Drupal\question1\Entity;
use Drupal\Core\Field\BaseFieldDefinition;
use Drupal\Core\Entity\ContentEntityBase;
use Drupal\Core\Entity\EntityChangedTrait;
use Drupal\Core\Entity\EntityPublishedTrait;
use Drupal\Core\Entity\EntityTypeInterface;
/**
* Defines the Question entity.
* @ingroup question1
* @ContentEntityType(
* id = "question",
  label = @Translation("Question"),
   handlers = {
    "view builder" = "Drupal\Core\Entity\EntityViewBuilder",
    "list builder" = "Drupal\question1\QuestionListBuilder",
    "views data" = "Drupal\question1\Entity\QuestionViewsData",
    "form" = {
```

```
"default" = "Drupal\question1\Form\QuestionForm",
     "add" = "Drupal\question1\Form\QuestionForm",
     "edit" = "Drupal\question1\Form\QuestionForm",
     "delete" = "Drupal\question1\Form\QuestionDeleteForm",
   },
   "route provider" = {
     "html" = "Drupal\question1\QuestionHtmlRouteProvider",
  "access" = "Drupal\question1\QuestionAccessControlHandler",
  },
* base table = "question",
* translatable = FALSE,
* admin permission = "administer question entities",
* entity keys = {
 "id" = "id".
   "label" = "name",
   "uuid" = "uuid",
   "langcode" = "langcode",
   "published" = "status",
* },
  links = {
   "canonical" = "/admin/structure/question/{question}",
   "add-form" = "/admin/structure/question/add",
   "edit-form" = "/admin/structure/question/{question}/edit",
```

```
"delete-form" = "/admin/structure/question/{question}/delete",
   "collection" = "/admin/structure/question",
* },
* field_ui_base_route = "question.settings"
* )
*/
class Question extends ContentEntityBase implements QuestionInterface {
 use EntityChangedTrait;
 use EntityPublishedTrait;
 /**
 * {@inheritdoc}
 */
 public function getName() {
  return $this->get('name')->value;
 }
 /**
 * {@inheritdoc}
  */
 public function setName($name) {
  $this->set('name', $name);
  return $this;
```

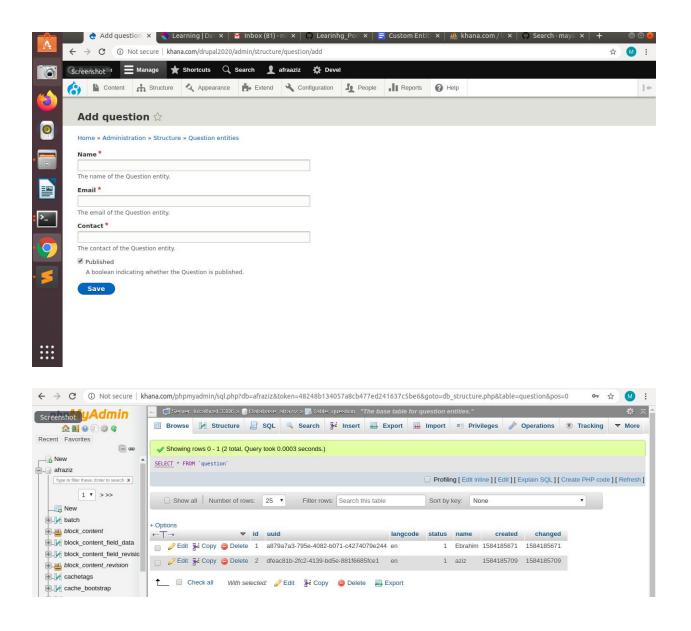
```
}
 /**
  * {@inheritdoc}
  */
 public function getCreatedTime() {
  return $this->get('created')->value;
 }
 /**
  * {@inheritdoc}
  */
 public function setCreatedTime($timestamp) {
  $this->set('created', $timestamp);
  return $this;
 /**
  * {@inheritdoc}
  */
 public static function baseFieldDefinitions(EntityTypeInterface
$entity_type) {
  $fields = parent::baseFieldDefinitions($entity_type);
```

```
// Add the published field.
$fields += static::publishedBaseFieldDefinitions($entity_type);
$fields['name'] = BaseFieldDefinition::create('string')
 ->setLabel(t('Name'))
 ->setDescription(t('The name of the Question entity.'))
 ->setSettings([
  'max length' => 50,
  'text processing' => 0,
 ])
 ->setDefaultValue(")
 ->setDisplayOptions('view', [
  'label' => 'above',
  'type' => 'string',
  'weight' => -4,
 ])
 ->setDisplayOptions('form', [
  'type' => 'string textfield',
  'weight' => -4,
 1)
 ->setDisplayConfigurable('form', TRUE)
 ->setDisplayConfigurable('view', TRUE)
 ->setRequired(TRUE);
 //entring email
```

```
$fields['email'] = BaseFieldDefinition::create('string')
->setLabel(t('Email'))
->setDescription(t('The email of the Question entity.'))
->setSettings([
 'max length' => 50,
 'text processing' => 0,
])
->setDefaultValue(")
->setDisplayOptions('view', [
 'label' => 'above',
 'type' => 'string',
 'weight' => -4,
])
->setDisplayOptions('form', [
 'type' => 'string textfield',
 'weight' => -4,
1)
->setDisplayConfigurable('form', TRUE)
->setDisplayConfigurable('view', TRUE)
->setRequired(TRUE);
//entring cotact
```

```
$fields['contact'] = BaseFieldDefinition::create('string')
->setLabel(t('Contact'))
->setDescription(t('The contact of the Question entity.'))
->setSettings([
 'max length' => 50,
 'text processing' => 0,
1)
->setDefaultValue(")
->setDisplayOptions('view', [
 'label' => 'above',
 'type' => 'integer',
 'weight' => -4,
])
->setDisplayOptions('form', [
 'type' => 'string textfield',
 'weight' => -4,
])
->setDisplayConfigurable('form', TRUE)
->setDisplayConfigurable('view', TRUE)
->setRequired(TRUE);
```

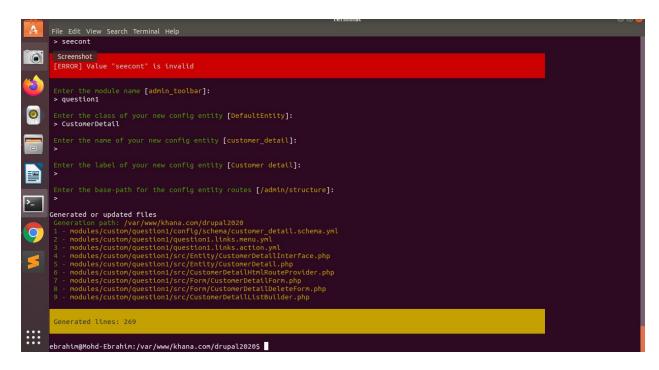
```
$fields['status']->setDescription(t('A boolean indicating whether the
Question is published.'))
   ->setDisplayOptions('form', [
     'type' => 'boolean checkbox',
     'weight' => -3,
   ]);
  $fields['created'] = BaseFieldDefinition::create('created')
   ->setLabel(t('Created'))
   ->setDescription(t('The time that the entity was created.'));
  $fields['changed'] = BaseFieldDefinition::create('changed')
   ->setLabel(t('Changed'))
   ->setDescription(t('The time that the entity was last edited.'));
  return $fields;
 }
}
```



Q2:- Create a Config Entity to store diff time slots for customers.

#### Solution:-

Step 1: run the \$ drupal gec command.



**Step 2:** go to>>module>>custom>>your module>>src>>Form>>CustomerDetailForm.php and do changes the following

<?php

namespace Drupal\question1\Form;

use Drupal\Core\Entity\EntityForm;
use Drupal\Core\Form\FormStateInterface;

/\*\*

\* Class CustomerDetailForm.

\*/

class CustomerDetailForm extends EntityForm {

```
/**
* {@inheritdoc}
*/
public function form(array $form, FormStateInterface $form state) {
 $form = parent::form($form, $form state);
 $customer detail = $this->entity;
 $form['label'] = [
  '#type' => 'textfield',
  '#title' => $this->t('Label'),
  '#maxlength' => 255,
  '#default value' => $customer detail->label(),
  '#description' => $this->t("Label for the Customer detail."),
  '#required' => TRUE,
 ];
 $form['id'] = [
  '#type' => 'machine name',
  '#default value' => $customer detail->id(),
  '#machine name' => [
   'exists' => '\Drupal\question1\Entity\CustomerDetail::load',
  ],
  '#disabled' => !$customer detail->isNew(),
```

```
];
  /* You will need additional form elements for your custom properties. */
  $form['timeslot'] = [
   '#type' => 'select',
    '#options'=>[1=>'Time Slot -1(9:00 am - 11:00am)',2=>'Time Slot
-2(11:00 am - 1:00pm)',3=>'Time Slot -3(1:00 pm - 3:00pm)'],
    '#title' => 'TimeSlot',
   //' #default value'=>$customer detail->timeslot(),
   // '#machine name' => [
    // 'exists' => '\Drupal\question1\Entity\CustomerDetail::load',
   //],
   // '#disabled' => !$customer detail->isNew(),
  1;
  return $form;
 }
 /**
  * {@inheritdoc}
  */
 public function save(array $form, FormStateInterface $form state) {
```

```
$customer_detail = $this->entity;
  $status = $customer detail->save();
  switch ($status) {
   case SAVED_NEW:
     $this->messenger()->addMessage($this->t('Created the %label
Customer detail.', [
      '%label' => $customer_detail->label(),
    ]));
    break;
   default:
     $this->messenger()->addMessage($this->t('Saved the %label
Customer detail.', [
      '%label' => $customer detail->label(),
    ]));
  }
  $form state->setRedirectUrl($customer detail->toUrl('collection'));
 }
}
Now go to >>config>>schema and do changes the following
question1.customer detail.*:
```

type: config\_entity

label: 'Customer detail config'

mapping:

id:

type: string

label: 'ID'

label:

type: label

label: 'Label'

uuid:

type: string

timeslot:

type: string

label: 'Timeslot'

