Lab Instructions and Solution for Module- 4: Course Assign and Showing this Course of our Grading System Project
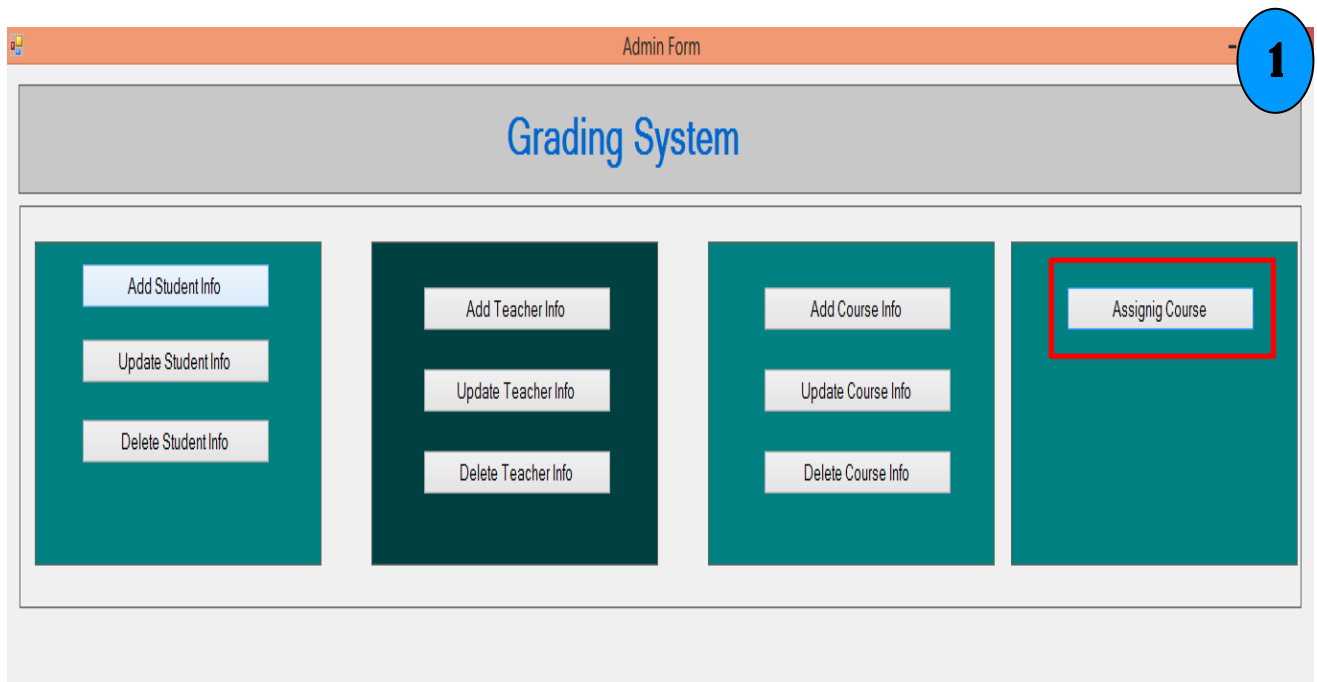
Objectives
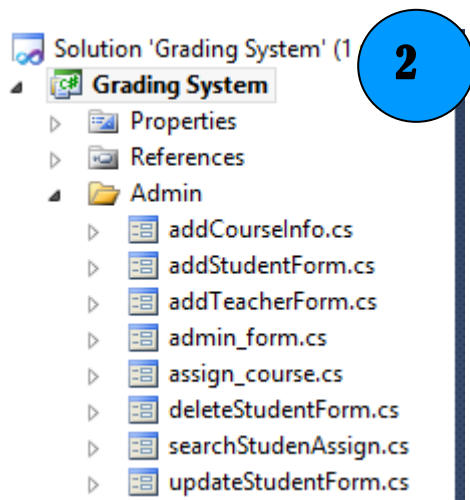
After completing this module you will be able to:
* After login, Admin assign courses for the teacher
* After login, Teacher see assign courses
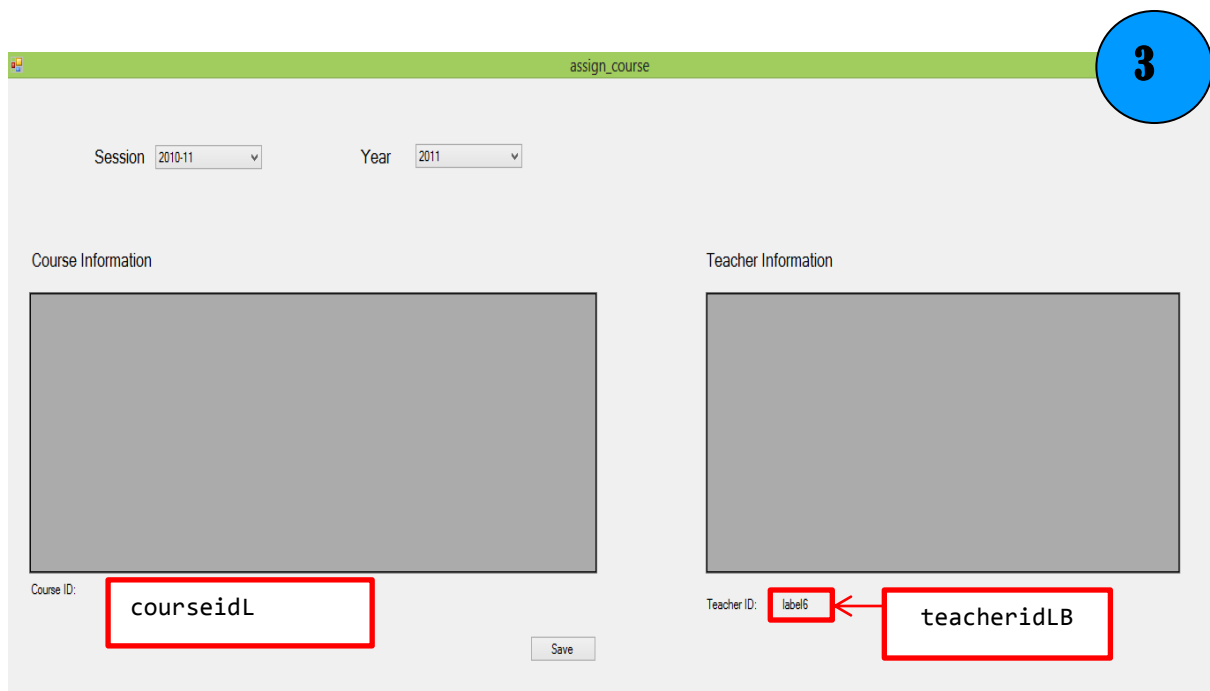* Teacher see create tutorial option, tutorial marks entry option of student's

Task 1: Design of Assign Course and Creating a table based on our project

1. After Admin login he/she see the following option(Fig-1).you design the following UI(Fig-1).This form name is **admin_form.cs** which create in Admin folder(Fig-2).
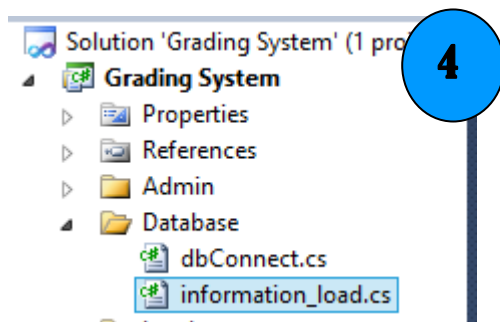
2. Now we click Assining Course Button(Fig-1) and see the following design which you will make(Fig-3).This form name is **assign_course.cs** which create in Admin folder (Fig-2). Here we drag two dataGridView in assign_course form.

3. Now select all Course Information and Teacher Information from **course_info** and **teacher_info** table which create in **gradingsystem_db** database in previous module. For this work, Create a class file name is **information_load.cs** which create in Database folder(Fig-4) and write the following code for dataGridview,Get Teacher Id & Course Id

```csharp
class information_load
{
    MySqlConnection con = Database.dbConnect.Initialize();
    int returnid;
    string returnvalue;

    public void datagridview_load(String query, DataGridView dgv)
    {

        try
        {
            con.Open();
            MySqlCommand cmd = new MySqlCommand(query, con);
            DataTable dataTable = new DataTable();
            using (MySqlDataAdapter da = new MySqlDataAdapter(cmd))
            {
                da.Fill(dataTable);
            }
            dgv.MultiSelect = false;
            dgv.SelectionMode = DataGridViewSelectionMode.FullRowSelect;
            dgv.DataSource = dataTable;
            dgv.DataMember = dataTable.TableName;
            dgv.Refresh();
        }
        catch (Exception ex)
        {
            MessageBox.Show(string.Format("An error occured {0}", ex.Message), "Error",
MessageBoxButtons.OK, MessageBoxIcon.Error);
        }
        finally
        {
            if (con != null)
                con.Close();

        }
    }

    public int get_id(string query)
```

```
        {
          try
          {
          con.Open();
          MySqlCommand cmd = new MySqlCommand(query, con);
          MySqlDataReader reader = cmd.ExecuteReader();

          if (reader.Read())
          {
             returnid = Convert.ToInt32(reader.GetString(0));
          }
          reader.Close();
          con.Close();
          return returnid;
        }
        catch (Exception ew)
        {

          MessageBox.Show("Error occured .Message - " + ew.Message, "Error",
MessageBoxButtons.OK, MessageBoxIcon.Error);
          con.Close();
          return returnid;
        }
        }
        }
```

4. Now we doble click on assign_form and write the following code

```
Database.dbConnect dbo = new Database.dbConnect();
Database.information_load il = new Database.information_load();


private void assign_course_Load(object sender, EventArgs e)
        {
            sessionCB.SelectedIndex = 0;
            yearCB.SelectedIndex = 0;

            il.datagridview_load("SELECT `c_id`, `c_title`, `c_code`, `credit`,
`session`, `semester` FROM `course_info`", courseDGV);
            il.datagridview_load("SELECT `t_id`, `t_name`, `t_s_code`, `t_desig`,
`t_dept` FROM `teacher_info`", teacherDGV);
        }
```

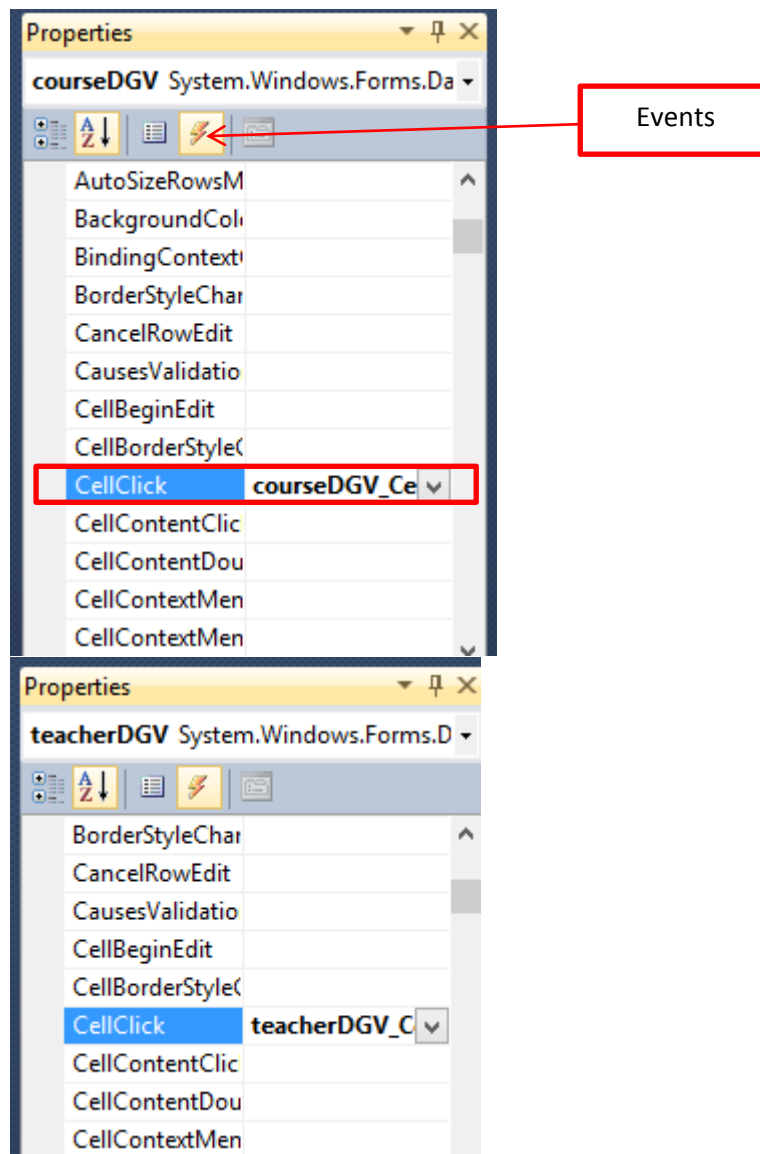5. After doing this we will see the following picture(Fig-5)

6. Now we will go to the Phpmyadmin and create table as name "**course_assign_info**" and Field name like this(Fig-6).

	Field	Type	Collation	Attributes	Null	Default	Extra
☐	**a_id**	int(11)			No	*None*	AUTO_INCREMENT
☐	**c_id**	int(11)			No	*None*	
☐	**t_id**	int(11)			No	*None*	
☐	**session**	varchar(20)	latin1_swedish_ci		No	*None*	
☐	**year**	varchar(20)	latin1_swedish_ci		No	*None*	
☐	**incourse_marks**	varchar(50)	latin1_swedish_ci		No	*None*	
☐	**tutorial**	varchar(50)	latin1_swedish_ci		No	*None*	
☐	**t1**	varchar(20)	latin1_swedish_ci		No	*None*	
☐	**t2**	varchar(20)	latin1_swedish_ci		No	*None*	
☐	**t3**	varchar(20)	latin1_swedish_ci		No	*None*	
☐	**t4**	varchar(20)	latin1_swedish_ci		No	*None*	
☐	**t5**	varchar(20)	latin1_swedish_ci		No	*None*	
☐	**assignment**	varchar(50)	latin1_swedish_ci		No	*None*	
☐	**a1**	varchar(20)	latin1_swedish_ci		No	*None*	
☐	**a2**	varchar(20)	latin1_swedish_ci		No	*None*	
☐	**a3**	varchar(20)	latin1_swedish_ci		No	*None*	
☐	**a4**	varchar(50)	latin1_swedish_ci		No	*None*	
☐	**a5**	varchar(50)	latin1_swedish_ci		No	*None*	
☐	**attendence**	varchar(20)	latin1_swedish_ci		No	*None*	
☐	**presentation**	varchar(20)	latin1_swedish_ci		No	*None*	
☐	**p1**	varchar(30)	latin1_swedish_ci		No	*None*	
☐	**p2**	varchar(50)	latin1_swedish_ci		No	*None*	
☐	**p3**	varchar(50)	latin1_swedish_ci		No	*None*	

Check All / Uncheck All *With selected:*

7. Now we select dataGridView cell for select Course Information and Teacher Information.For this reason we will go to dataGridView properties and select Events. For Course Information(Fig-) and Teacher Information(Fig-). Double click on the Cell Click and write the following code .


```csharp
private void courseDGV_CellClick(object sender, DataGridViewCellEventArgs e)
    {
        courseidL.Text = courseDGV[0, e.RowIndex].Value.ToString();
    }

    private void teacherDGV_CellClick(object sender, DataGridViewCellEventArgs e)
    {
        teacheridLB.Text = teacherDGV[0, e.RowIndex].Value.ToString();
    }
```

8. Now we work with Save Button(Fig-5).After select Course and Teacher Information
    We save this information in the database which table name is "**course_assign_info**"

```csharp
private void saveB_Click(object sender, EventArgs e)
{
    if (courseidL.Text == "" || teacheridLB.Text == "") {
        MessageBox.Show("Please select at least one course and one teacher");
        return;
    }
    string query = "INSERT INTO `gradingsystem_db`.`course_assign_info`
(`a_id`, `c_id`, `t_id`, `session`, `year`) VALUES (NULL, '"+courseidL.Text+"',
'"+teacheridLB.Text+"', '"+sessionCB.SelectedItem+"', '"+yearCB.SelectedItem+"');";
    dbo.Insert(query);

    int aid = il.get_id("SELECT max( a_id ) FROM `course_assign_info` ");

    string create_query = "CREATE TABLE IF NOT EXISTS `gradingsystem_db`.`" +
aid + "` (`s_e_roll` INT NOT NULL)";
    dbo.Insert(create_query);


}
```