



**PAF-Karachi Institute of Economics and
Technology College of Computing and Information
Sciences**

Object Oriented Programming

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Class ID: 106278.

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OOP LAB TASK # 07

Perform these task using windows form and MS Access.

[Marks 10]

1. Read data from excel / csv file
2. Show data in grid view through data table
3. Perform bulk insertion

Task:

Task 1, 2, 3 are done below in one format.

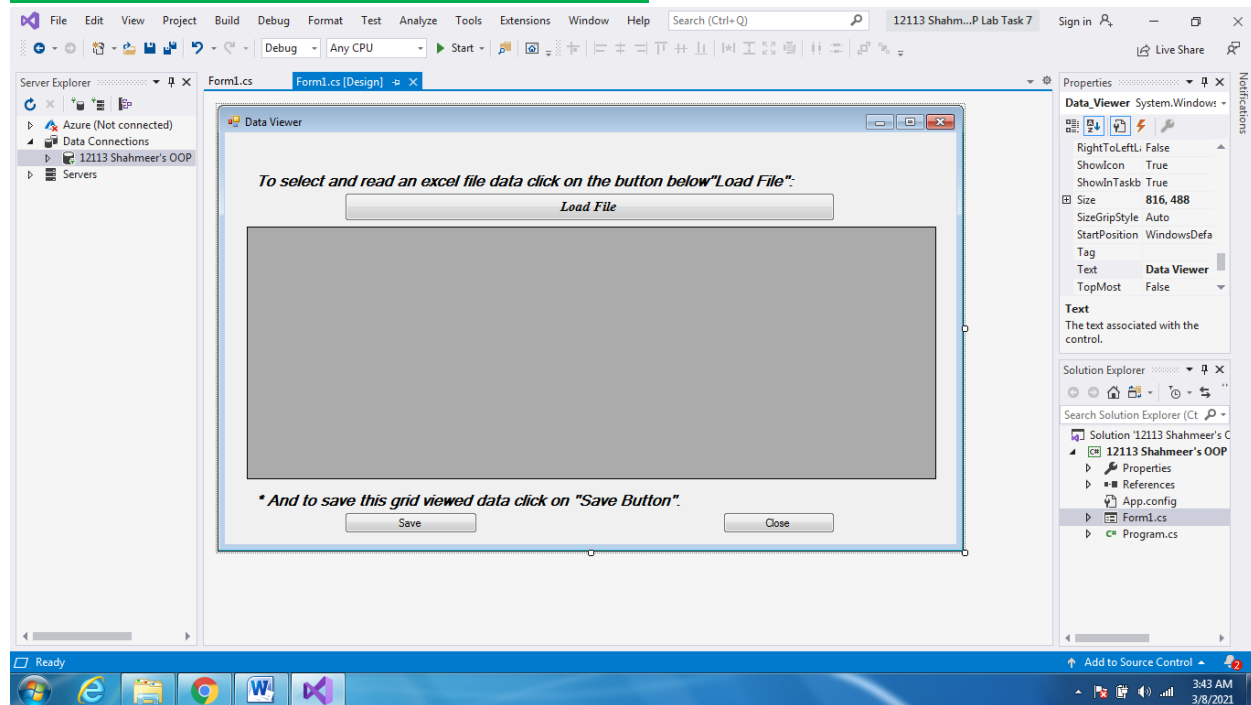
- 1) For the "Reading of Data Task 1" the read query (Select[query]) is being used in Load File to read the data from excel file which can be any Excel File. Also after reading the data from any excel file the data will be transferred to Grid View in Data table Form..
- 2) For the "Showing of Data in a grid view after reading it from an excel file" the coding of that process is also done in Load File button of the interface the data grid view will be containing will be of the excel file as after it will be seen as the load file button will be clicked and the desired excel file will be chosen.
- 3) And then the "Bulk Insertion" for that the coding/functioning is there in the code of Save Button which is also the part of interface and the data will be saving through it with query used in it of "Insert" After making the connection with Database of Grid view the data of the grid view will be transferring after click on the Save Button and the Data on the Grid view came from the Excel file as you know with the help of Select(which is a data reader query). Everything is there in the application the process is below...

(See Next Page)....

(See Next Page)....

INPUTTED CODE/INTERFACES:

Form 1/Data Viewer.cs[Design]:



Form 1/Data Viewer.cs[Code]:

```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;
using System.Data.OleDb;
using System.IO;

namespace _12113_Shahmeer_s_OOP_Lab_Task_7
{
    public partial class Data_Viewer : Form
    {
        public string Path_of_File;
        public string Extension_of_File;
        public Data_Viewer()
        {
            InitializeComponent();
        }

        private void Choose_File_Button_Click(object sender, EventArgs e)
        {

```

```

    }

    private void Close_Button_Click(object sender, EventArgs e)
    {
        Close();
    }

    private void File_Loader_with_Name_Click(object sender, EventArgs e)
    {
        OpenFileDialog File = new OpenFileDialog(); //Will open dialogbox to choose our desire
        file from where we want to import data..
        if (File.ShowDialog() == DialogResult.OK) //using this for if there is a file choosen
        by the user
        {
            Path_of_File = File.FileName; //this will get the path of the file
            Extension_of_File = Path.GetExtension(Path_of_File); // this will get the file
            extension
            if (Extension_of_File.CompareTo(".xls") == 0 ||
            Extension_of_File.CompareTo(".xlsx") == 0)
            {
                DataTable dtExcel = new DataTable();
                dtExcel = ReadFile(Path_of_File, Extension_of_File); //read excel file
                Data_Shower.Visible = true;
                Data_Shower.DataSource = dtExcel;
            }
            else
            {
                MessageBox.Show("Please choose .xls or .xlsx file only.");
                //custom messageBox to show error
            }
        }
    }

    public DataTable ReadFile(string File_Name, string File_Extension)
    {
        string Connection;
        DataTable Data_Table_of_Excel = new DataTable();
        if (File_Extension.CompareTo(".xls") == 0)
        {
            Connection = @"provider=Microsoft.Jet.OLEDB.4.0;Data Source=" + File_Name +
            ";Extended Properties='Excel 8.0;HRD=Yes;IMEX=1';";
            //for below excel 2007
        }
        else
        {
            Connection = @"Provider=Microsoft.ACE.OLEDB.12.0;Data Source=" + File_Name +
            ";Extended Properties='Excel 12.0;HDR=NO';";
            //for above excel 2007
        }
        OleDbConnection con = new OleDbConnection(Connection);
        OleDbDataAdapter oleAdpt = new OleDbDataAdapter("select * from [Sheet1$]", con);
        //here we read data from sheet1 pf any Excel file..
        oleAdpt.Fill(Data_Table_of_Excel); //fills excel data into dataTable of gridviewer..
        return Data_Table_of_Excel;
    }

    private void button1_Click(object sender, EventArgs e)
    {
        string path = @"Provider=Microsoft.ACE.OLEDB.12.0;Data Source=D:\Kiet 2nd semester\OOP
        LAB\OOP LAB 7\12113 Shahmeer's OOP LAB TASK 7.accdb";
        OleDbConnection Connection = new OleDbConnection(path);
        foreach (DataGridViewRow each_row in Data_Shower.Rows)
        {

```

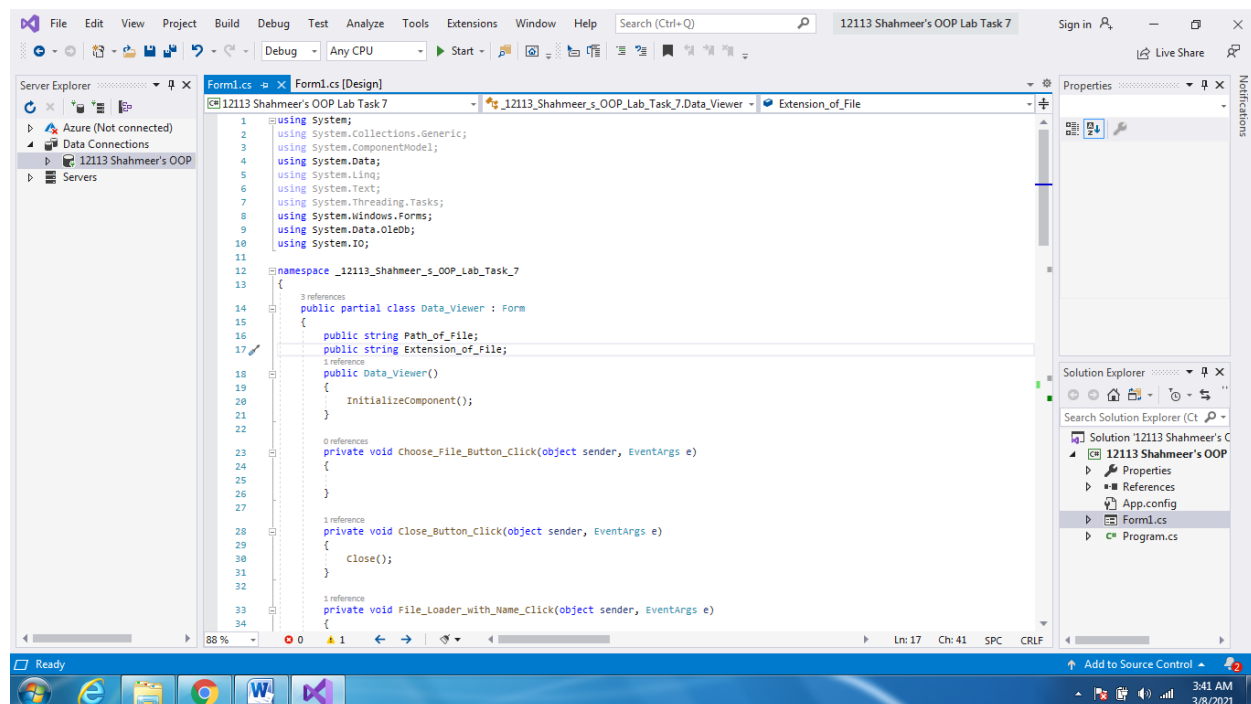
```

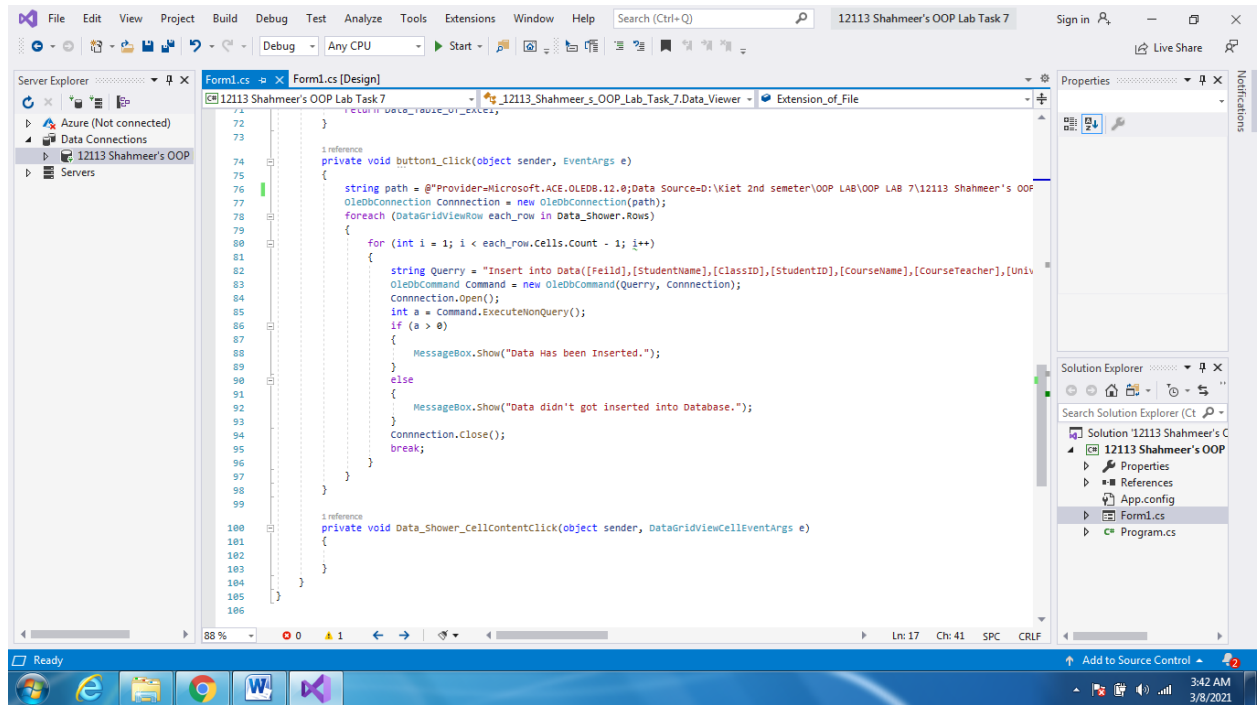
        for (int i = 1; i < each_row.Cells.Count - 1; i++)
        {
            string Query = "Insert into
Data([Feild],[StudentName],[ClassID],[StudentID],[CourseName],[CourseTeacher],[University]) values
('" + each_row.Cells[0].Value + "',' + each_row.Cells[1].Value + "',' +
each_row.Cells[2].Value + "',' + each_row.Cells[3].Value + "',' + each_row.Cells[4].Value +
'",'" + each_row.Cells[5].Value + "',' + each_row.Cells[6].Value + "')";
            OleDbCommand Command = new OleDbCommand(Query, Connection);
            Connection.Open();
            int a = Command.ExecuteNonQuery();
            if (a > 0)
            {
                MessageBox.Show("Data Has been Inserted.");
            }
            else
            {
                MessageBox.Show("Data didn't got inserted into Database.");
            }
            Connection.Close();
            break;
        }
    }
}

private void Data_Shower_CellContentClick(object sender, DataGridViewCellEventArgs e)
{
}
}
}
}

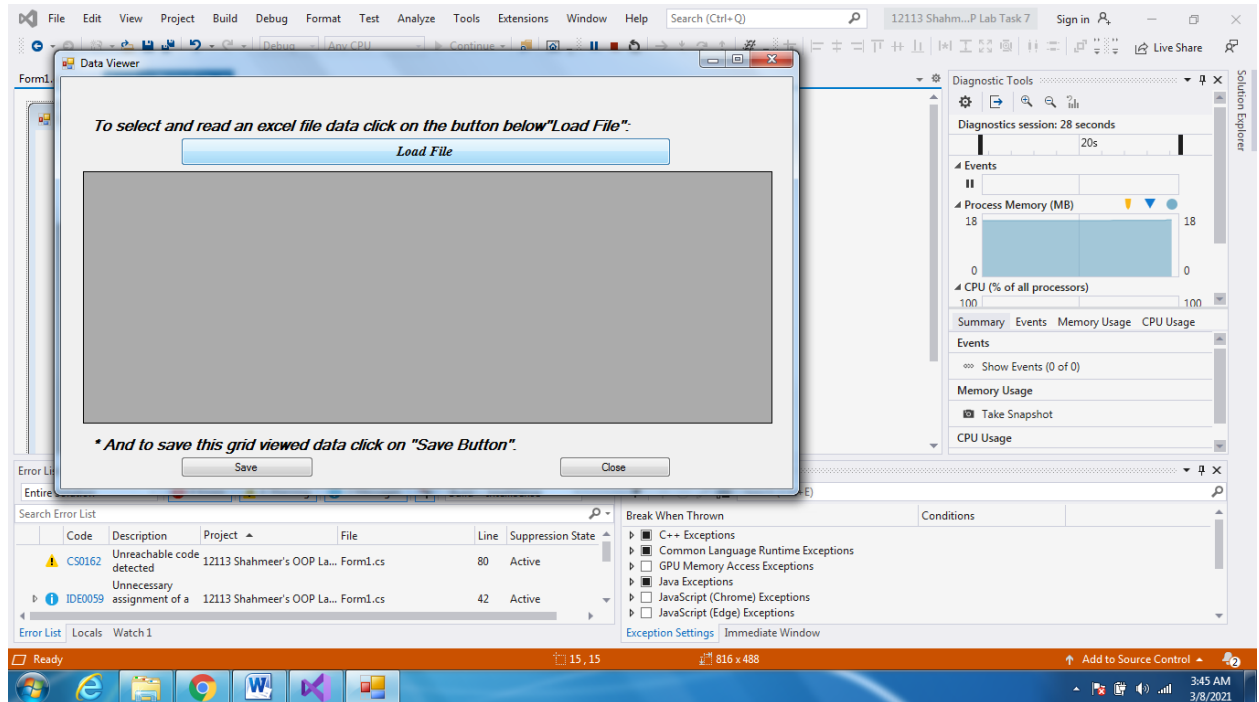
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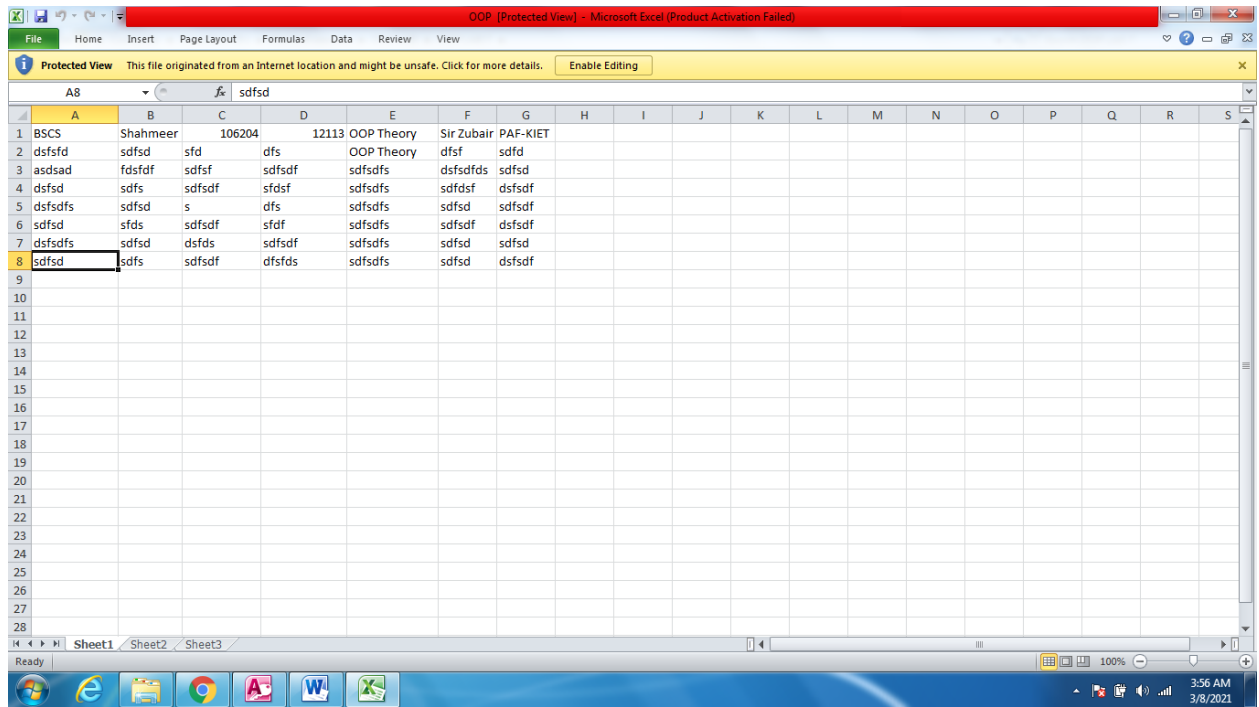
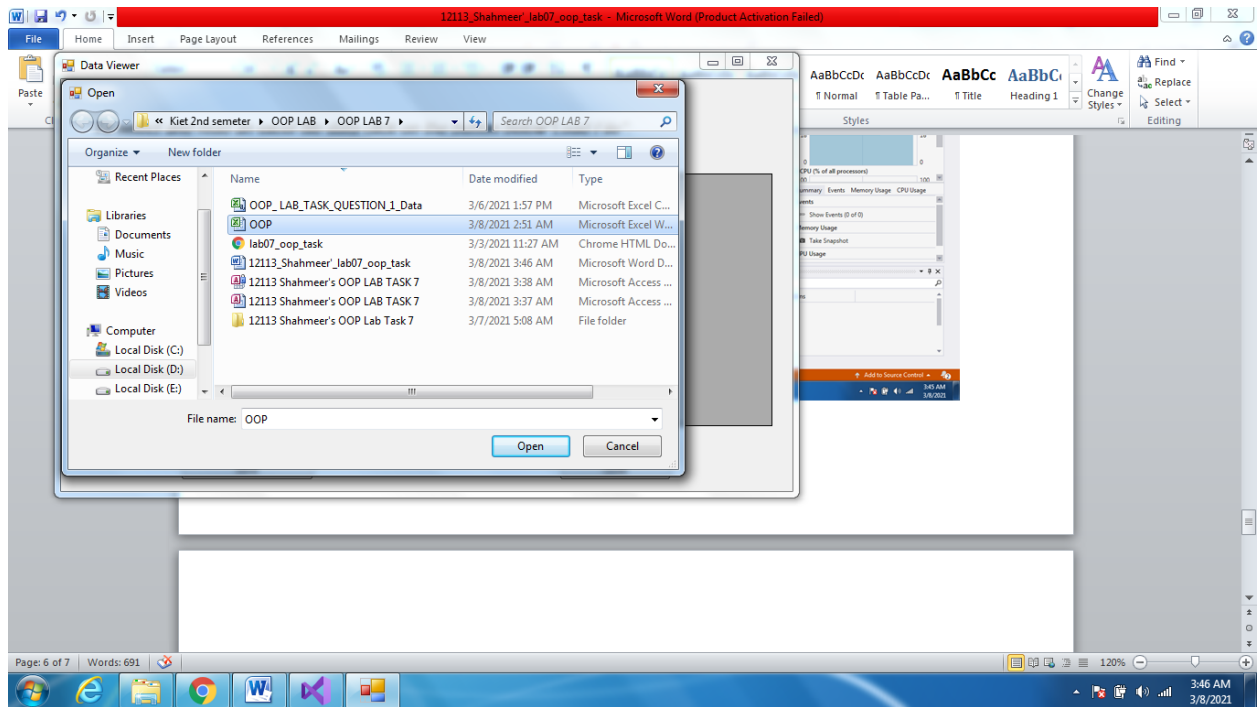
Screenshots of Code:

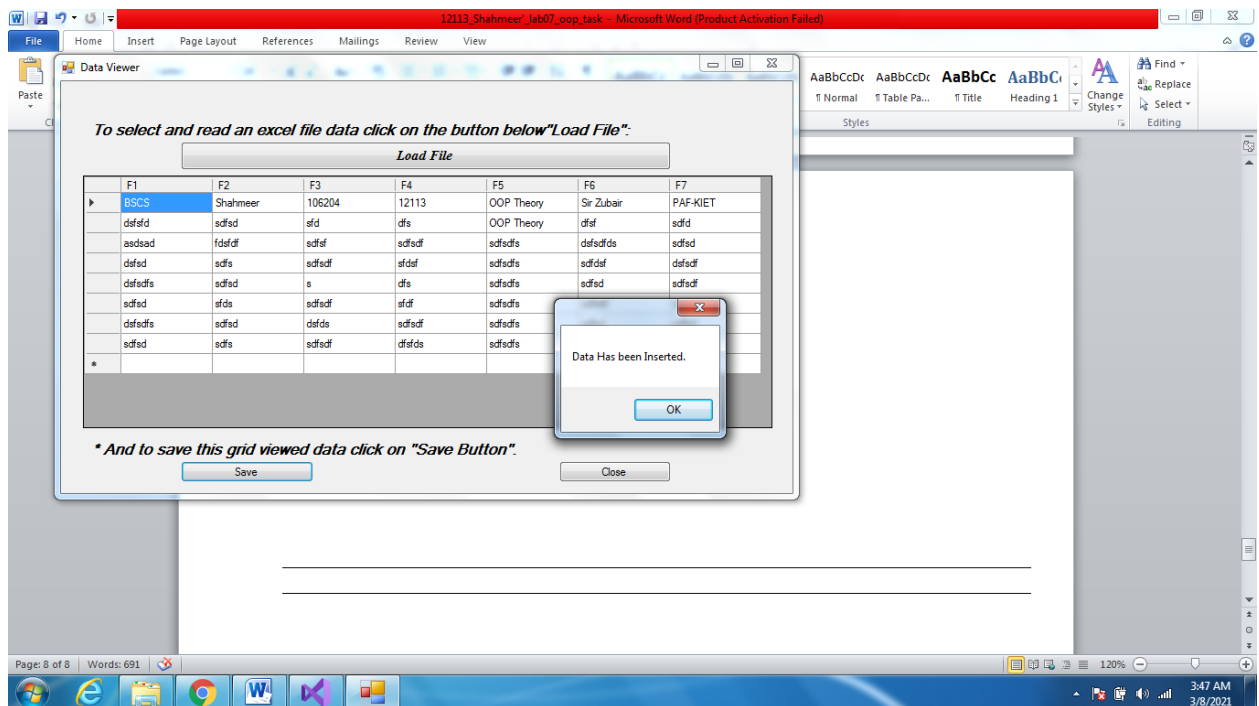
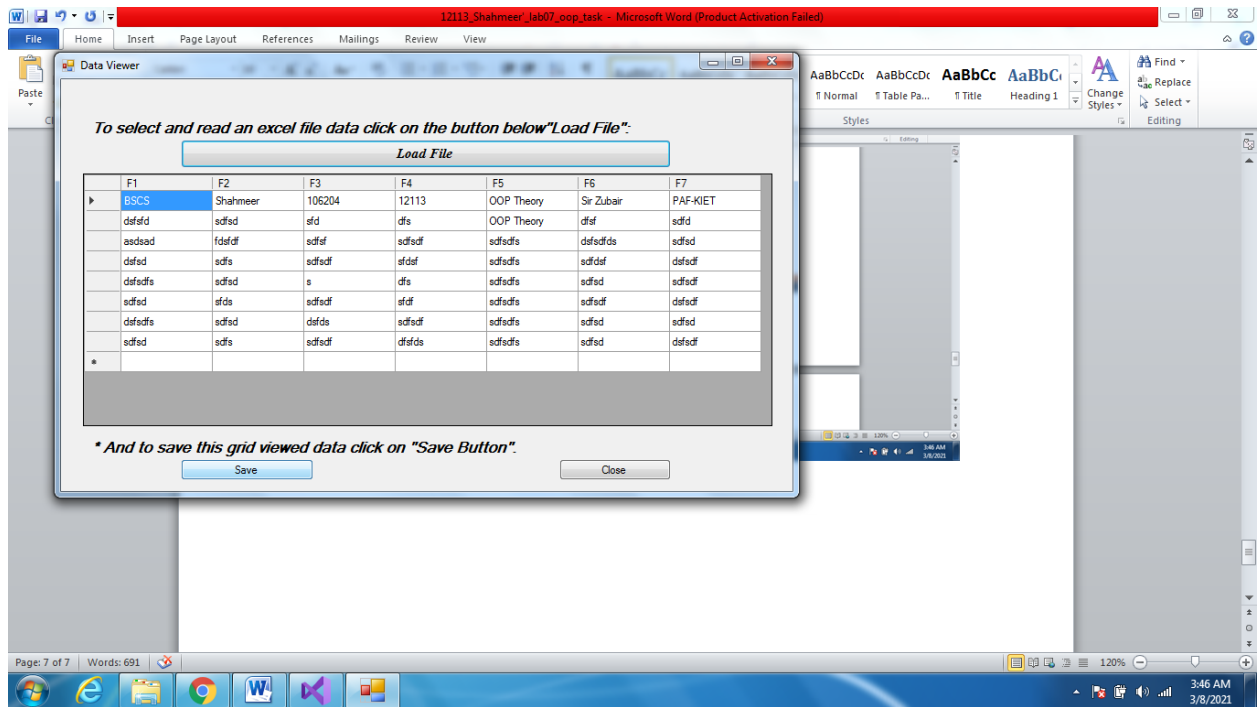




Outputs:







12113 Shahmeer's OOP LAB TASK 7 : Database (Access 2007) - Microsoft Access (Product Activation Failed)

File Home Create External Data Database Tools Fields Table

Filter Ascending Selection Descending Advanced Remove Sort Toggle Filter Sort & Filter

Refresh All New Save Spelling Find Replace Go To Find Select

Calibri (Detail) 11 Text Formatting

All Access Objects Search...

Tables Data

ID	Feild	StudentName	ClassID	StudentID	CourseName	CourseTeacher	University	Click to Add
1	BSCS	Shahmeer	106204	12113	OOP Theory	Sir Zubair	PAF-KIET	
2	dsfsd	sdfsd	sfd	dfs	OOP Theory	dfs	sd	
3	asdsad	fsdf	sd	sd	sd	sd	sd	
4	dsfsd	sd	sd	sd	sd	sd	sd	
5	dsfsd	sd	s	dfs	sd	sd	sd	
6	dsfsd	sd	sd	sd	sd	sd	sd	
7	dsfsd	sd	sd	sd	sd	sd	sd	
8	dsfsd	sd	sd	sd	sd	sd	sd	
9								
*	(New)							

Record: 1 of 9 No Filter Search

Datasheet View Num Lock 3:48 AM 3/8/2021

Miss Also a small Request that please miss negative marking mat kijiyege actually I am resubmitting this file coz at first this application was only reading first row of datagridview at that moment not the remaining ones but now I have fixed it by adding a for loop in save button code after foreachloop now this tool is working perfectly and doing the bulk insertion perfectly so miss kindly please negative marking nhn kijiyege coz also this tool was hard to make so please miss kindly negative marking nhn kijiyege and it is only 3 hours late miss please..