# ASSIGNMENT-1 WRITEUP

# **M SHREE VAMSHIKA**

Software engineer Dover India private limited.

#### **ABSTRACT**

This project is a console-based application which can be used to manage teacher's data in school/college. The user can use command line interface to interact with the application's backend that is text-file is used to store, update and retrieve teacher's data. C# programming language is used to write this program.

# **SOFTWARE REQUIREMENTS**

- Visual studio
- .Net Framework
- Windows OS

## **FEATURES PROVIDED**

- 1. Adding new teacher
- 2. Displaying all teacher's
- 3. Updating teacher's data
- 4. Delete a teacher record
- 5. Saving the record to text file

## 1. Adding teacher data:

When the user chooses 1<sup>st</sup> option this means he wants to add teacher data.

User will have to enter number of records to be added along with ID, name, email, class, section of the teacher.

```
Inference
static public void add_teachers(teacher_accounts new_acc, List(teacher_accounts) teacher_list)

{
    Console.Writeline("\nEnter the number of teacher records to be added");
    int record_count = int.Parse(Console.ReadLine());

    for (int i = 0; i < record_count; i++)
    {
        Console.WriteLine("\nEnter the teacher's ID :");
        int ID = int.Parse(Console.ReadLine());

        Console.WriteLine("Enter the teacher's name :");
        string name = Console.ReadLine();

        Console.WriteLine("Enter the teacher email :");
        string email = Console.ReadLine();

        Console.WriteLine("Enter Class :");
        int clss = int.Parse(Console.ReadLine()); // reading class from user input

        Console.WriteLine("Enter Section :");
        char sec = Console.ReadLine()[0]; // reading signle char from user

        new_acc = new teacher_accounts();
        new_acc.class = clss;
        new_acc.class = clss;
        new_acc.class = clss;
        new_acc.cetion = sec;
        new_acc.deadli = email;
        teacher_list.Add(new_acc);
    }
}
</pre>
```

## 2. Displaying the teacher record:

When the users choose 2<sup>nd</sup> option all the teacher details is displayed.

```
for (int i = 0; i < teacher_list.Count; i++)

{
    Console.WriteLine("\n\nID = " + teacher_list[i].id);
    Console.WriteLine("Teacher Name = " + teacher_list[i].teachername);
    Console.WriteLine("Class = " + teacher_list[i].Class);
    Console.WriteLine("Section = " + teacher_list[i].section);
    Console.WriteLine("Teacher Email = " + teacher_list[i].section);
    Console.WriteLine("Teacher Email = " + teacher_list[i].email + "\n\n");
}

if (teacher_list.Count < 1)
    Console.WriteLine("\n No teacher's data found \n");
}

1 reference</pre>
```

#### 3. Update teacher's data:

Here the user has to provide the ID of the teacher to update and select the field which he wants to update.

```
static public void update_teachers_data(List<teacher_accounts> teacher_list)
   Console.WriteLine("Enter the teacher's id to update account ..");
   int update id = int.Parse(Console.ReadLine());
   int index = teacher_list.FindIndex(x => x.id == update_id);
   if (index > -1)
       Console.WriteLine("Enter option \n1. Name \n2. Class\n3. Section\n4. email");
       int option = int.Parse(Console.ReadLine());
       if (option == 1)
           Console.WriteLine("Enter new name to be updated ..");
           string nn = Console.ReadLine();
           teacher_list[index].teachername = nn;
       if (option == 2)
           Console.WriteLine("Enter new class to be updated ..");
           int nc = int.Parse(Console.ReadLine());
           teacher_list[index].Class = nc;
       if (option == 3)
           Console.WriteLine("Enter new section to be updated ..");
```

## 4. Deleting teacher record:

Here the user has to mention the teacher ID to delete the record of that particular teacher.

```
1 reference
static public void delete_records(List<teacher_accounts> teacher_list)
{
    Console.WriteLine("\nEnter the teacher's id to delete record ..");
    int delete_id = int.Parse(Console.ReadLine());
    int index = teacher_list.FindIndex(x => x.id == delete_id);

if (index > -1)
    {
        Console.WriteLine("\nTeacher's Name :" + teacher_list[index].teachername + "\nAllocated Class :" + teacher_list[index].Cla
        Console.WriteLine("Will be deleted from records ..\n");
        teacher_list.RemoveAt(index);
    }

else
    Console.WriteLine("ID not found in records \n");
```

#### 5. Saving the teacher details to file:

After all the necessary operations are done the user can finally save all the records to a text-file.