

A dark blue vertical bar runs down the left side of the page. A blue arrow points to the right from this bar, containing the date.

2/22/2022

# DAY22 ASSIGNMENT

EMPLOYEE MANAGEMENT APPLICATION

Several thin, curved lines in dark blue and light grey originate from the bottom left and sweep upwards and to the right.

Bhanu Prakash Reddy Chilukuri  
NB HEALTHCARE TECHNOLOGIES

## Employee Management Application

Add Employee

Search Employee

Display All Employees

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1.Employee ID (Should not be negative)

2.Employee Name (min 3 Characters)

3.Employee Salary (min 10000)

4.Employee Age (age  $\geq 18$  and age  $\leq 58$ )

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Employees.txt [to be saved in file]

## Application Code:

### Data Access Layer:

```
using System;
using System.Collections.Generic;
using System.IO;
using System.Linq;
using System.Text;
using System.Threading.Tasks;

namespace DataAccessLibrary
{
    //-x=-x=-x=-x=-x=-x=-x=-x=-x=-x=-x=-x=-x=-x=-x=-x=-x=-x=-x=-
    //Author: Bhanu Prakash Reddy
    //WACP for Employee Data Access Layer
    //-x=-x=-x=-x=-x=-x=-x=-x=-x=-x=-x=-x=-x=-x=-x=-x=-x=-x=-x=-
    public static class EmployeesDAL
    {
        /// <summary>
        /// filepath for saved text file
        /// </summary>
        public static string filepath = "D:\\Employee Data\\Employee.txt";
        /// <summary>
        /// Adding Employee Details
        /// </summary>
        /// <param name="empID"></param>
        /// <param name="empName"></param>
        /// <param name="empSalary"></param>
        /// <param name="empAge"></param>
        /// <returns>Employee Data</returns>
        public static bool AddEmployee(int empID, string empName, int empSalary,
int empAge)
        {
            try
            {
                string empdetails = string.Concat(empID, ",", empName, ",",
empSalary, ",", empAge);
                File.AppendAllText(filepath, empdetails + Environment.NewLine);
                return true;
            }
            catch
            {
                return false;
            }
        }
        /// <summary>
        /// Finding empolyee data by using Id
        /// </summary>
        /// <param name="ID"></param>
        /// <returns>eEmployee Data</returns>

        public static List<string> FindEmployeesByID(int ID)
        {
            var allEmployees = File.ReadAllLines(filepath);
            bool isFound = false;
            List<string> employeesFound = new List<string>();
            foreach (string employee in allEmployees)
```





```

        s = Convert.ToInt32(Console.ReadLine());
        switch (s)
        {
            case 1:
                AddEmployee();
                break;

            case 2:
                FindEmployeesByID();
                break;
            case 3:
                FindEmployeesByName();
                break;

            case 4:
                FindAllEmployees();
                break;
            default:
                Console.WriteLine("Enter valid option");
                break;
        }
        Console.WriteLine("Do you want to continue(y/n):");
        choice = Console.ReadLine();
    }
    while (choice.Equals("y"));
}

public static void AddEmployee()
{
    int id, salary, age;
    string name;

    Console.WriteLine("Enter Employee Id: ");
    id = Convert.ToInt32(Console.ReadLine());
    Console.WriteLine("Enter Employee Name: ");
    name = Console.ReadLine();
    Console.WriteLine("Enter Employee Salary: ");
    salary = Convert.ToInt32(Console.ReadLine());
    Console.WriteLine("Enter Employee Age: ");
    age = Convert.ToInt32(Console.ReadLine());

    var empData = EmployeesBLL.AddEmployee(id, name, salary, age);

    if(empData)
        Console.WriteLine("Data Added Sucessfully");
    else
        Console.WriteLine("Enter valid data");
}

public static void FindEmployeesByID()
{
    int id;
    Console.WriteLine("Enter Employee Id : ");
    id = Convert.ToInt32(Console.ReadLine());

    var empData = EmployeesBLL.FindEmployeesByID(id);

    if(empData.Count==0)
        Console.WriteLine($"No data exists in this {id}");
    else

```

```

        {
            empData.ForEach(emp => Console.WriteLine(emp));
        }
    }

    public static void FindEmployeesByName()
    {
        string name;
        Console.WriteLine("Enter Employee Name : ");
        name = Console.ReadLine();

        var empData = EmployeesBLL.FindEmployeesByName(name);

        if (empData.Count == 0)
            Console.WriteLine($"No data exists in this {name}");
        else
        {
            empData.ForEach(emp => Console.WriteLine(emp));
        }
    }

    public static void FindAllEmployees()
    {
        var empData = EmployeesBLL.FindAllEmployees();

        foreach(var emp in empData)
            Console.WriteLine(emp);
    }
}

```

## Output:



The screenshot shows a Notepad window with the title bar 'Employee.txt - Notepad'. The menu bar includes 'File', 'Edit', 'Format', 'View', and 'Help'. The text area contains five lines of data, each representing an employee record with an ID, name, salary, and age. The status bar at the bottom indicates the cursor is at 'Ln 1, Col 1', the zoom is '100%', the line ending is 'Windows (CRLF)', and the encoding is 'UTF-8'.

```
1,Bhanu,32000,23
2,Surya,35000,23
3,Prudhvi,40000,24
4,Ram Charan,36000,24
5,Bhanu Prakash,30000,23
```





-X=-X=-X=-X=-X=-X=-X=-X=-X=-X=-X=-X=-X=-X=-X=-X=-X=-

$-X=-X=-X=-X=-X=-X=-X=-X=-X=-X=-X=-X=-X=-X=-X=-X=-X=-X=-X=-$

```
1. Add Employee :
2. Search Employee Details by Id :
3. Search Employee Details by Name :
4. Display All Employee Details :
Enter your Choice
```

```
1
Enter Employee Id:
```

```
1
Enter Employee Name:
```

```
Bhanu
Enter Employee Salary:
```

```
32000
Enter Employee Age:
```

23  
Data Added Sucessfully

```
Do you want to continue(y/n):
```

Y

~~-X=-X=-X=-X=-X=-X=-X=-X=-X=-X=-X=-X=-X=-X=-X=-~~

```
Employee Management Application
--X--X--X--X--X--X--X--X--X--X
1. Add Employee :
2. Search Employee Details by Id :
3. Search Employee Details by Name :
```

```
4. Display All Emp
Enter your Choice
```

```
1
Enter Employee Id:
```

```
2
Enter Employee Name:
```

```
Surya
Enter Employee Salary:
```

```
35000
Enter Employee Age:
```

23 Data Added Sucesssfully

```
Do you want to continue(y/n):
```

V

[illegible]

```

--X--X--X--X--X--X--X--X--X--X--
Employee Management Application
--X--X--X--X--X--X--X--X--X--X--
1. Add Employee :
2. Search Employee Details by Id :
3. Search Employee Details by Name :


```

```
4. Display All Employees
Enter your Choice
```

1



```
3. Search Employee Details by Name :
4. Display All Employee Details :
Enter your Choice
3
Enter Employee Name :
Prudhvi
3,Prudhvi,40000,24
Do you want to continue(y/n):
y
--X--X--X--X--X--X--X--X--X--X--X--X--X--X--X--X--X--X--X--
Employee Management Application
--X--X--X--X--X--X--X--X--X--X--X--X--X--X--X--X--X--X--X--
1. Add Employee :
2. Search Employee Details by Id :
3. Search Employee Details by Name :
4. Display All Employee Details :
Enter your Choice
4
1,Bhanu,32000,23
2,Surya,35000,23
3,Prudhvi,40000,24
4,Ram Charan,36000,24
Do you want to continue(y/n):
y
--X--X--X--X--X--X--X--X--X--X--X--X--X--X--X--X--X--X--X--
Employee Management Application
--X--X--X--X--X--X--X--X--X--X--X--X--X--X--X--X--X--X--X--
1. Add Employee :
2. Search Employee Details by Id :
3. Search Employee Details by Name :
4. Display All Employee Details :
Enter your Choice
1
Enter Employee Id:
5
Enter Employee Name:
Bhanu Prakash
Enter Employee Salary:
30000
Enter Employee Age:
23
Data Added Sucessfully
Do you want to continue(y/n):
y
--X--X--X--X--X--X--X--X--X--X--X--X--X--X--X--X--X--X--X--
Employee Management Application
--X--X--X--X--X--X--X--X--X--X--X--X--X--X--X--X--X--X--X--
1. Add Employee :
2. Search Employee Details by Id :
3. Search Employee Details by Name :
```

 D:\assignments\EmoloyeesManagementApplication\BhanuClientApp\bin\Debug\BhanuClientApp.exe

```
2. Search Employee Details by Id :  
3. Search Employee Details by Name :  
4. Display All Employee Details :  
Enter your Choice  
3  
Enter Employee Name :  
Bhanu  
1,Bhanu,32000,23  
5,Bhanu Prakash,30000,23  
Do you want to continue(y/n):  
-
```