1. Declare a dictionary-based collection of Employee class objects

Accept details for Employees in a loop. Stop accepting based on user input (yes/no)'

Display the Employee with highest Salary

Accept EmpNo to be searched. Display all details for that employee.

Display details for the Nth Employee where N is a number accepted from the user.

SOLUTION-

```
using System;
using System.Collections.Generic;
class Employee
    public int EmpNo { get; set; }
   public string Name { get; set; }
    public int Salary { get; set; }
    public Employee(int empNo, string name, int salary)
        EmpNo = empNo;
        Name = name;
       Salary = salary;
    }
}
class Program
    static void Main(string[] args)
        // Declare a dictionary-based collection of Employee objects
        Dictionary<int, Employee> employees = new Dictionary<int, Employee>();
        // Accept employee details in a loop
        string input = "";
        while (input.ToLower() != "no")
            Console.WriteLine("Enter Employee Number:");
            int empNo = int.Parse(Console.ReadLine());
            Console.WriteLine("Enter Employee Name:");
            string name = Console.ReadLine();
            Console.WriteLine("Enter Employee Salary:");
            int salary = int.Parse(Console.ReadLine());
            employees.Add(empNo, new Employee(empNo, name, salary));
            Console.WriteLine("Do you want to add more Employee (Yes/No)?");
            input = Console.ReadLine();
        }
```

```
// Display the Employee with highest Salary
        Employee highestSalaryEmp = employees.Values.OrderByDescending(emp =>
emp.Salary).First();
        Console.WriteLine("Employee with highest salary: {0}, Salary: {1}",
highestSalaryEmp.Name, highestSalaryEmp.Salary);
        // Accept EmpNo to be searched
        Console.WriteLine("Enter the EmpNo to be searched:");
        int searchEmpNo = int.Parse(Console.ReadLine());
        // Display all details for that employee
        Employee searchedEmp = employees[searchEmpNo];
        Console.WriteLine("EmpNo: {0}, Name: {1}, Salary: {2}",
searchedEmp.EmpNo, searchedEmp.Name, searchedEmp.Salary);
        // Display details for the Nth Employee
        Console.WriteLine("Enter the Nth Employee to be displayed:");
        int nthEmp = int.Parse(Console.ReadLine());
        Employee nthEmployee = employees.Values.ElementAt(nthEmp - 1);
        Console.WriteLine("EmpNo: {0}, Name: {1}, Salary: {2}",
nthEmployee.EmpNo, nthEmployee.Name, nthEmployee.Salary);
}
```

```
Microsoft Visual Studio Debug Console
Enter Employee Number:
Enter Employee Name:
ELON MUSK
Enter Employee Salary:
Do you want to add more Employee (Yes/No)?
Enter Employee Number:
Enter Employee Name:
spiderman
Enter Employee Salary:
Do you want to add more Employee (Yes/No)?
Employee with highest salary: spiderman, Salary: 30000
Enter the EmpNo to be searched:
EmpNo: 1, Name: ELON MUSK, Salary: 20000
Enter the Nth Employee to be displayed:
EmpNo: 2, Name: spiderman, Salary: 30000
E:\.NET WORKSPACE-1\DAY6\ASSIGNMENT-5-Q1\bin\Debug\net6.0\ASSIGNMENT-5-Q1.exe (process 16220) exited with code 0.
 ress any key to close this window . . .
```

2. Create an array of Employee objects. Convert it to a List<Employee>. Display all the Employees in the list.

```
using System;
using System.Collections.Generic;

class Employee
{
    public int EmpNo { get; set; }
    public string Name { get; set; }
```

```
public decimal Salary { get; set; }
    public Employee(int empNo, string name, decimal salary)
         EmpNo = empNo;
         Name = name;
        Salary = salary;
    }
}
class Program
    static void Main(string[] args)
         Employee[] employees = new Employee[]
              new Employee(1, "ELON MUSK ", 50000),
new Employee(2, "PRAJWAL ", 60000),
new Employee(3, "JACK SPARROW", 40000)
         };
        List<Employee> employeeList = new List<Employee>();
         employeeList.AddRange(employees);
         Console.WriteLine("Employees:");
         foreach (Employee employee in employeeList)
         {
             Console.WriteLine("Employee Number: " + employee.EmpNo);
             Console.WriteLine("Name: " + employee.Name);
             Console.WriteLine("Salary: " + employee.Salary);
             Console.WriteLine();
         }
         Console.ReadLine();
    }
}
```

```
E:\NET WORKSPACE-1\DAY6\ASSIGNMENT-5-Q2\bin\Debug\net6.0\ASSIGNMENT-5-Q2.exe

Employees:
Employee Number: 1
Name: ELON MUSK
Salary: 50000

Employee Number: 2
Name: PRAJWAL
Salary: 60000

Employee Number: 3
Name: JACK SPARROW
Salary: 40000
```

3. Create a List<Employee>. Convert it to an array. Display all the array elements.

SOLUTION-

```
using System;
using System.Collections.Generic;
class Employee
```

```
{
    public string Name { get; set; }
    public int Age { get; set; }
    public Employee(string name, int age)
        Name = name;
        Age = age;
    }
}
class Program
    static void Main(string[] args)
        // Create a List of Employees
        List<Employee> employees = new List<Employee>
            new Employee("ELON MUSK", 40),
            new Employee("PRAJWAL", 24),
            new Employee("JACK SPARROW", 50)
        };
        // Convert the List to an array
        Employee[] employeeArray = employees.ToArray();
        // Display all the elements of the array
        foreach (Employee employee in employeeArray)
        {
            Console.WriteLine(employee.Name + ", " + employee.Age);
        }
    }
}
```