.NET ASSIGNMENT-04

Prajwal_77

1. CDAC KOCHI has certain number of batches. each batch has certain number of students

accept number of batches. for each batch accept number of students.

create an array to store mark for each student (1 student has only subject mark)

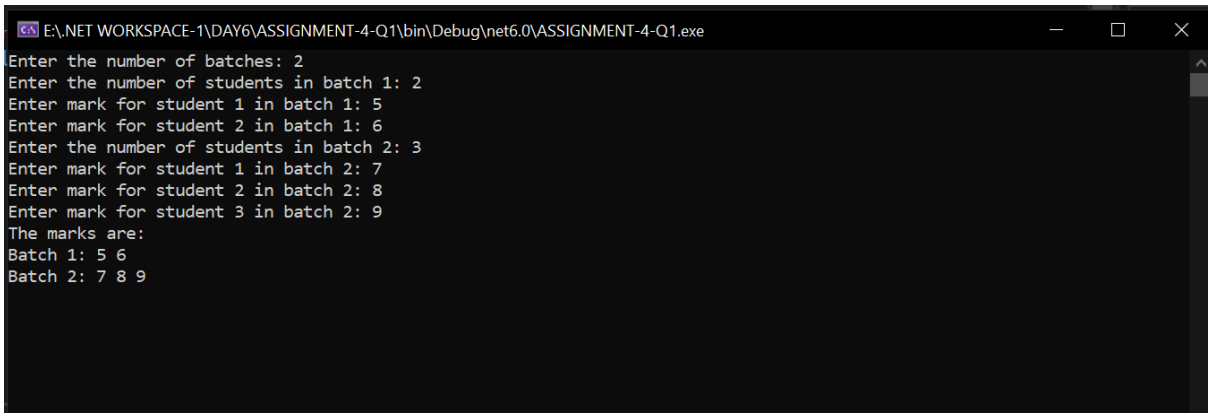
accept the marks.

display the marks.

Solution –

```
using System;

class Program
{
    static void Main(string[] args)
    {
        Console.Write("Enter the number of batches: ");
        int numBatches = int.Parse(Console.ReadLine());
        int[][] marks = new int[numBatches][];

        for (int i = 0; i < numBatches; i++)
        {
            Console.Write("Enter the number of students in batch " + (i + 1) + ":
");
            int numStudents = int.Parse(Console.ReadLine());
            marks[i] = new int[numStudents];

            for (int j = 0; j < numStudents; j++)
            {
                Console.Write("Enter mark for student " + (j + 1) + " in batch "
+ (i + 1) + ": ");
                marks[i][j] = int.Parse(Console.ReadLine());
            }
        }

        Console.WriteLine("The marks are:");
        for (int i = 0; i < numBatches; i++)
        {
            Console.Write("Batch " + (i + 1) + ": ");
            for (int j = 0; j < marks[i].Length; j++)
            {
                Console.Write(marks[i][j] + " ");
            }
            Console.WriteLine();
        }
```

```
        Console.ReadLine();
    }
}
```



2. Create an array of Employee class objects

Accept details for all Employees

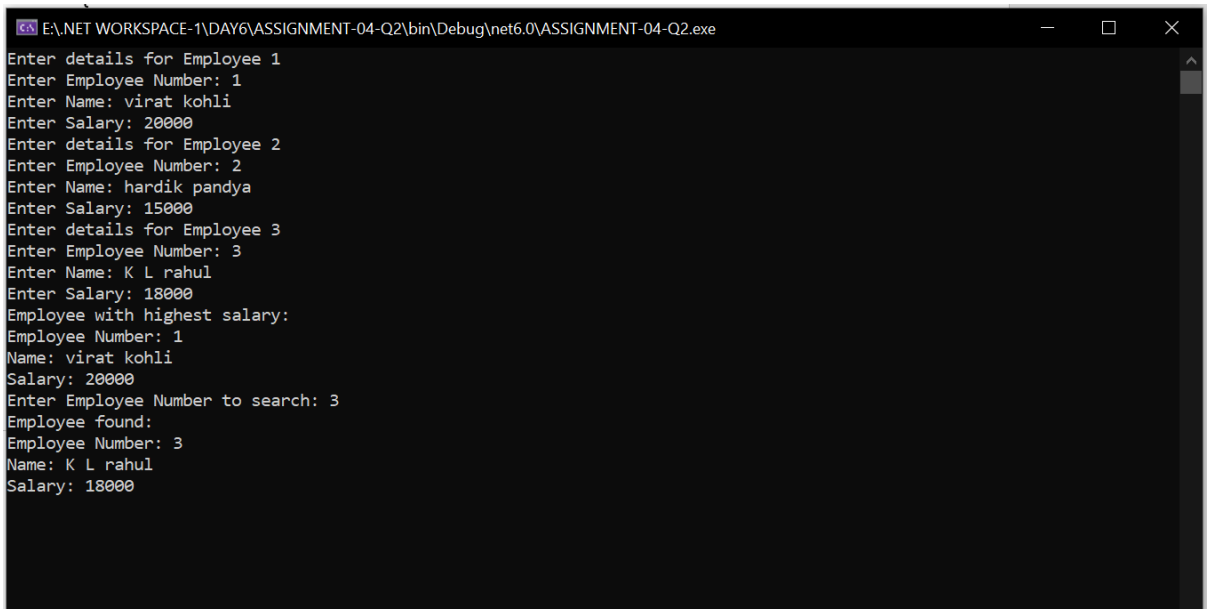
Display the Employee with highest Salary

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

SOLUTION-

```
using System;

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[3];

        for (int i = 0; i < employees.Length; i++)
        {
            Console.WriteLine("Enter details for Employee " + (i + 1));
            Console.Write("Enter Employee Number: ");
            int empNo = int.Parse(Console.ReadLine());
            Console.Write("Enter Name: ");
            string name = Console.ReadLine();
            Console.Write("Enter Salary: ");
            decimal salary = decimal.Parse(Console.ReadLine());

            employees[i] = new Employee(empNo, name, salary);
        }

        Employee highestSalaryEmployee = employees[0];
        for (int i = 1; i < employees.Length; i++)
        {
            if (employees[i].Salary > highestSalaryEmployee.Salary)
            {
                highestSalaryEmployee = employees[i];
            }
        }

        Console.WriteLine("Employee with highest salary:");

        Console.WriteLine("Employee Number: " + highestSalaryEmployee.EmpNo);
        Console.WriteLine("Name: " + highestSalaryEmployee.Name);
        Console.WriteLine("Salary: " + highestSalaryEmployee.Salary);



        Console.Write("Enter Employee Number to search: ");
        int searchEmpNo = int.Parse(Console.ReadLine());
        Employee searchedEmployee = null;

        for (int i = 0; i < employees.Length; i++)
        {
            if (employees[i].EmpNo == searchEmpNo)
            {
                searchedEmployee = employees[i];
                break;
            }
        }

        if (searchedEmployee != null)
        {
            Console.WriteLine("Employee found:");
            Console.WriteLine("Employee Number: " + searchedEmployee.EmpNo);
            Console.WriteLine("Name: " + searchedEmployee.Name);
            Console.WriteLine("Salary: " + searchedEmployee.Salary);
        }
        else
        {
            Console.WriteLine("Employee not found.");
        }

        Console.ReadLine();
    }
}
```


E:\.NET WORKSPACE-1\DAY6\ASSIGNMENT-04-Q2\bin\Debug\net6.0\ASSIGNMENT-04-Q2.exe
Enter details for Employee 1
Enter Employee Number: 1
Enter Name: virat kohli
Enter Salary: 20000
Enter details for Employee 2
Enter Employee Number: 2
Enter Name: hardik pandya
Enter Salary: 15000
Enter details for Employee 3
Enter Employee Number: 3
Enter Name: K L rahul
Enter Salary: 18000
Employee with highest salary:
Employee Number: 1
Name: virat kohli
Salary: 20000
Enter Employee Number to search: 3
Employee found:
Employee Number: 3
Name: K L rahul
Salary: 18000