DAY 7 MNG ASSIGNMENT PRESENTED BY

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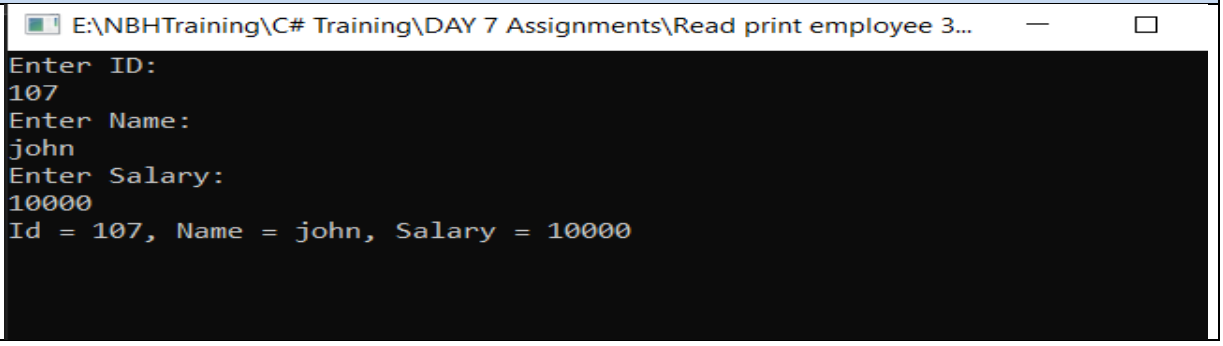
1.Create Employee class with three variables and two methods Read employee and print employee and create an object and call methods.

Code:

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

namespace Read_print_employee_3vari_2meth
{
    internal class Program
    {
        class Employee
        {
            public int Id;
            public string Name;
            public int salary;

            public void ReadEmployee()
            {
                Console.WriteLine("Enter ID:");
                Id = Convert.ToInt32(Console.ReadLine());

                Console.WriteLine("Enter Name:");
                Name = Console.ReadLine();

                Console.WriteLine("Enter Salary:");
                salary = Convert.ToInt32(Console.ReadLine());

            }
            public void PrintEmployee()
            {
                Console.WriteLine($"Id = {Id}, Name = {Name}, Salary = {salary}");
            }


        }
        static void Main(string[] args)
        {

            Employee emp1 = new Employee();
            emp1.ReadEmployee();
            emp1.PrintEmployee();

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

Output:



2. Write the 3 def of class and 4 points about object discussed in the class?

CLASS:

- A class is group of variables and method.
- A class is like a design and blueprint to create objects.
- A class consists of state and behaviour.

OBJECT:

- An object is an instance of a class.
- We can create any number of objects.
- Objects occupy memory.
- Objects are reference type.

4. Create below classes:

A)Customer:

Code:

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

namespace Customer
{
    internal class Customer_1
    {

        public int cust_ID;
        public string cust_Name;
        public string cust_Dept;



        public void ReadCustomer()
        {
            Console.WriteLine("Enter Cust_ID: ");
            cust_ID = Convert.ToInt32(Console.ReadLine());

            Console.WriteLine("Enter Cust_Name");
            cust_Name = Console.ReadLine();

            Console.WriteLine("Enter Cust_Dept: ");
            cust_Dept = Console.ReadLine();
        }
        public void PrintCustomer()
        {
            Console.WriteLine($"cust_ID = {cust_ID},cust_Name = {cust_Name},
cust_Dept = {cust_Dept}");

        }
        static void Main(string[] args)
        {
            Customer_1 cust = new Customer_1();
            cust.ReadCustomer();
            cust.PrintCustomer();

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

Output:

```
E:\NBHTraining\C# Training\DAY 7 Assignments\Create customer class\Create customer class\bin\Debug\(
Enter Cust_ID:
100
Enter Cust_Name
john
Enter Cust_Dept:
development
cust_ID = 100,cust_Name = john, cust_Dept = development
```

B) Product:

Code:

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

namespace create_product_class
{
    internal class Product
    {
        public int Product_ID;
        public string Product_Name;
        public string Product_price;



        public void ReadProduct()
        {
            Console.WriteLine("Enter Product_ID: ");
            Product_ID = Convert.ToInt32(Console.ReadLine());

            Console.WriteLine("Enter Product_Name");
            Product_Name = Console.ReadLine();
Console.WriteLine("Enter Product_price: ");
            Product_price = Console.ReadLine();
        }
        public void PrintProduct()
        {
            Console.WriteLine($"product_ID = {Product_ID},product_Name =
{Product_Name}, product_price = {Product_price}");

        }

        static void Main(string[] args)
        {
            Product Product = new Product();
            Product.ReadProduct();
            Product.PrintProduct();

            Console.ReadLine();
        }


        }
    }
```

Output:

```
E:\NBHTraining\C# Training\DAY 7 Assignments\create product class\create product class\bin\Debug\create produ
Enter Product_ID:
1014
Enter Product_Name
book
Enter Product_price:
30
product_ID = 1014,product_Name = book, product_price = 30
```

C) Seller:

Code:

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

namespace Create_seller_class
{
    internal class seller_1
    {
        public int Seller_ID;
        public string Seller_Name;
        public string Seller_Email;



        public void Readseller()
        {
            Console.WriteLine("Enter Seller_ID: ");
            Seller_ID = Convert.ToInt32(Console.ReadLine());

            Console.WriteLine("Enter Seller_Name");
            Seller_Name = Console.ReadLine();
Console.WriteLine("Enter Seller_Email: ");
            Seller_Email = Console.ReadLine();
        }
        public void Printseller()
        {
            Console.WriteLine($"seller_ID = {Seller_ID},seller_Name = {Seller_Name},
Seller_Email = {Seller_Email}");

        }
        static void Main(string[] args)
        {
            seller_1 seller = new seller_1();
            seller.Readseller();
            seller.Printseller();

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

Output:

```
E:\NBHTraining\C# Training\DAY 7 Assignments\Create seller class\Create seller class\bin\Debug\Create seller class.
Enter Seller_ID:
2034
Enter Seller_Name
johney
Enter Seller_Email:
johney@gmail.com
seller_ID = 2034,seller_Name = johney, Seller_Email = johney@gmail.com
```

D) Department:

Code:

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

namespace create_dept_class
{
    internal class Dept
    {
        public int dept_id;
        public string dept_name;
        public string course_name;

        public void ReadDept()
        {
            Console.WriteLine("Enter Dept_ID: ");
            dept_id = Convert.ToInt32(Console.ReadLine());

            Console.WriteLine("Enter Dept_Name: ");
            dept_name = Console.ReadLine();

            Console.WriteLine("Enter Course_Name: ");
            course_name = Console.ReadLine();
}

        public void PrintDepartment()
        {
            Console.WriteLine($"Dept_ID= {dept_id}, Dept_Name= {dept_name},
Course_Name= {course_name}");
        }
        static void Main(string[] args)
        {

                Dept dept = new Dept();
                dept.ReadDept();
                dept.PrintDepartment();


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

Output:

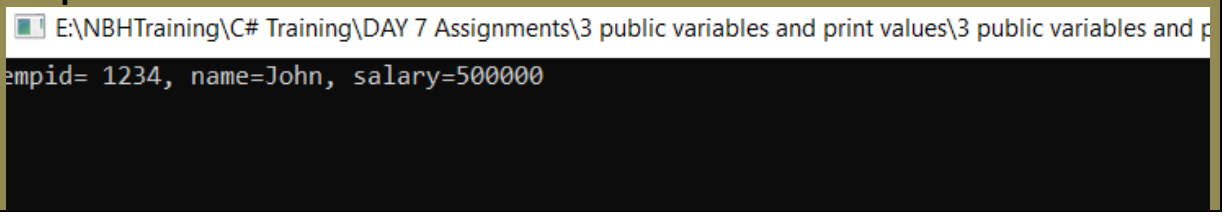
```
E:\NBHTraining\C# Training\DAY 7 Assignments\create dept class\create dept class\bin\Debug\create de
Enter Dept_ID:
2035
Enter Dept_Name:
development
Enter Course_Name:
.net
Dept_ID= 2035, Dept_Name= development, Course_Name= .net
```

5. Create employee class with 3 public Variables. Create employee object and initialize with values while creating object and print the values.

Code:

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

namespace _3_public_variables_and_print_values
{
    class Employee
    {
        public int empid;
        public string name;
        public int salary;

    }
    internal class Program
    {
        static void Main(string[] args)
        {
            Employee emp = new Employee();
            emp.empid = 1234;
            emp.name = "John";
            emp.salary = 500000;

            //{empid =1234; name =John,  salary=500000"};
            Console.WriteLine($"empid= {emp.empid}, name={emp.name},
salary={emp.salary}");
            Console.ReadLine();
        }
    }
}
```

Output:



6. Create employee class as shown below:

Class Employee

{

Public int id;

Public string name;

Public int salary;

}

Now create employees array object and initialize with 5 employees write code using

#For loop

#foreach loop

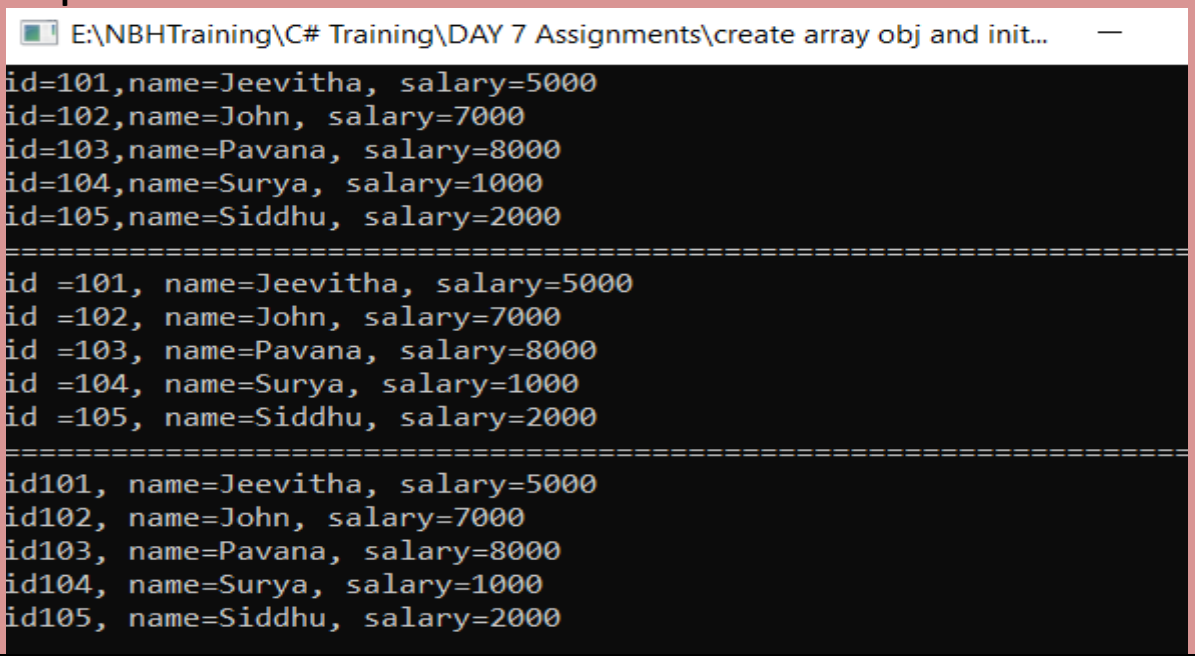
#lambda expression

Code:

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

namespace create_array_obj_and_init_with_5_emp
{
    class Employee
    {
        public int id;
        public string name;
        public int salary;
    }
    internal class Program
    {
        static void Main(string[] args)
        {
            Employee[] employee = new Employee[5];

            employee[0] = new Employee() { id = 101,name="Jeevitha", salary = 5000 };
            employee[1] = new Employee() { id = 102, name = "John", salary = 7000 };
           employee[2] = new Employee() { id = 103, name = "Pavana", salary = 8000 };
            employee[3] = new Employee() { id = 104, name = "Surya", salary = 1000 };
           employee[4] = new Employee() { id = 105, name = "Siddhu", salary = 2000 };


Console.WriteLine("================================================================
========");

            //forloop
            for (int i = 0; i < employee.Length; i++)
            {
Console.WriteLine($"id={employee[i].id},name={employee[i].name},salary={employee[i].s
alary}");

            }

Console.WriteLine("================================================================
========");
            //foreach loop
            foreach (var e in employee)
            {
                Console.WriteLine($"id ={e.id}, name={e.name}, salary={e.salary}");
            }
```

```
Console.WriteLine("================================================================
========");



//Lambda Expression
            employee.ToList().ForEach(e => Console.WriteLine($"id{e.id},
name={e.name}, salary={e.salary}"));
           Console.ReadLine();
      }
  }

}
```

Output:



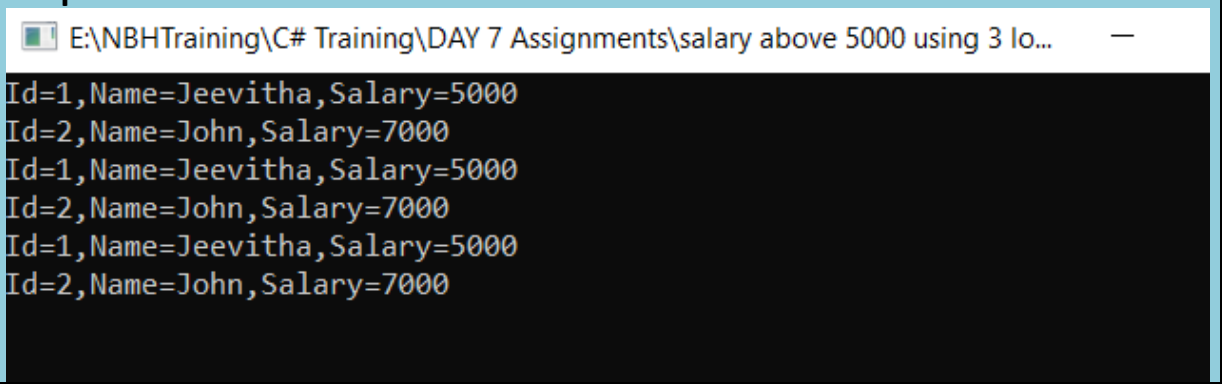
7. For the above project , write code to print employees who is getting salary >=5000 using
For loop
Foreach loop
Lambda expression

Code:

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

namespace salary_above_5000_using_3_loops
{
    internal class Program
    {
        class Employee
        {
            public int Id;
            public string Name;
            public int Salary;
        }
        static void Main(string[] args)
        {

            Employee[] emp = new Employee[]
            {
                new Employee() { Id = 1, Name = "Jeevitha", Salary = 5000 },

                new Employee() { Id = 2, Name = "John", Salary = 7000 },

                new Employee() { Id = 3, Name = "Pavana", Salary = 3000 },

                new Employee() { Id = 4, Name = "Pavi", Salary = 4000 }
            };
            //Print the values using for loop

            for (int i = 0; i < emp.Length; i++)

            {
                if (emp[i].Salary >= 5000)

Console.WriteLine($"Id={emp[i].Id},Name={emp[i].Name},Salary={emp[i].Salary}");
            }


            //Print the values using foreah loop

            foreach (var e in emp)
            {
                if (e.Salary >= 5000)
                    Console.WriteLine($"Id={e.Id},Name={e.Name},Salary={e.Salary}");
            }

            //Print values using Lambda Expression

            emp.ToList().Where(e => e.Salary >= 5000).ToList().ForEach(e =>
Console.WriteLine($"Id={e.Id},Name={e.Name},Salary={e.Salary}"));

            Console.ReadLine();

        }
```

```
    }
}
```

Output:



7. Similar to 5 and 6 projects create list of Customer an product arrays and practice for, foreach and lambda expression.

CUSTOMER:

Code:

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

namespace create_list_of_customer_using_3_loops
{
    class Customer
    {
        public int id;
        public string name;
        public int points;
    }
    internal class Program
    {
        static void Main(string[] args)
        {
            Customer[] customer = new Customer[]
                {
                    new Customer() { id = 101, name ="jeevitha", points =90},
                    new Customer() { id = 102, name ="pavana",points=60},
                    new Customer() { id = 103, name ="john",points=96},
                    new Customer() { id = 104, name ="johney",points=45},
                    new Customer() { id = 105, name ="riya",points=78}
};
            Console.WriteLine("*******************************************");

            //using for loop
            for (int i = 0; i < customer.Length; i++)
            {
                if (customer[i].points >= 30)

Console.WriteLine($"id={customer[i].id},name={customer[i].name},Points={customer[
i].points}");
```

```
            }

Console.WriteLine("************************************************");
            //using foreach
            foreach (var e in customer)
            {
                if (e.points >= 30)

Console.WriteLine($"id={e.id},name={e.name},Points{e.points}");
            }

Console.WriteLine("************************************************");
            //using lamda expression

            customer.ToList().Where(e => e.points >= 30).ToList().ForEach(e =>
Console.WriteLine($"id={e.id},name={e.name},Points{e.points}"));
            Console.ReadLine();
        }
    }
}
```

Output:

```
E:\NBHTraining\C# Training\DAY 7 Assignments\create list of customer using 3 loops\create list of custor
************************************************
id=101,name=jeevitha,Points=90
id=102,name=pavana,Points=60
id=103,name=john,Points=96
id=104,name=johney,Points=45
id=105,name=riya,Points=78
************************************************
id=101,name=jeevitha,Points90
id=102,name=pavana,Points60
id=103,name=john,Points96
id=104,name=johney,Points45
id=105,name=riya,Points78
************************************************
id=101,name=jeevitha,Points90
id=102,name=pavana,Points60
id=103,name=john,Points96
id=104,name=johney,Points45
id=105,name=riya,Points78
```

PRODUCT:

Code:

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

namespace create_list_of_product_using_3_loops
{
    class Product
    {

            public int id;
            public string name;
            public int price;
```

```
        }
        internal class Program
        {
            static void Main(string[] args)
            {
                Product[] product = new Product[]
                    {
                    new Product() { id = 101, name ="book", price =30},
                    new Product() { id = 102, name ="fan",price=1000},
                    new Product() { id = 103, name ="chocolate",price=100},
                    new Product() { id = 104, name ="pen",price=10},
new Product() { id = 103, name ="chocolate",price=100},
                    new Product() { id = 104, name ="pen",price=10},
                    new Product() { id = 105, name ="watch",price=2000}
                    };

Console.WriteLine("**************************************************");
                //using for loop
                for (int i = 0; i < product.Length; i++)
                {
                    if (product[i].price >= 100)

Console.WriteLine($"id={product[i].id},name={product[i].name},Price={product[i].price
}");
                }

Console.WriteLine("**************************************************");
                //using foreach
                foreach (var e in product)
                {
                    if (e.price >= 100)
                        Console.WriteLine($"id={e.id},name={e.name},Price{e.price}");
                }

Console.WriteLine("**************************************************");
                //using lamda expression

                product.ToList().Where(e => e.price >= 100).ToList().ForEach(e =>
Console.WriteLine($"id={e.id},name={e.name},Price{e.price}"));
                Console.ReadLine();
            }
        }
    }
```

Output: