Day 7 Morning Assignments

Ву

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NB Health Care

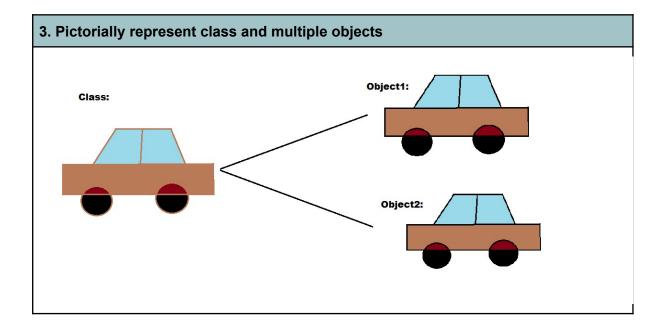
1. Create Employee class with three variables and two methods. ReadEmployee and PrintEmployee and create an object and call methods.

```
using System;
using System.Collections.Generic;
using System.Ling;
using System.Text;
using System. Threading. Tasks;
namespace Day_7_Project_1
  // Author : Praveen Chakravarthi
  // Purpose : Employee Class Program
    // Class
    class Employee
       public string Name;
       public int Age;
       public string Address;
       // Methods
       public void ReadEmployee()
         Console.WriteLine("Enter the Name: ");
         Name = Console.ReadLine();
         Console.WriteLine("Enter the Age: ");
         Age = Convert.ToInt32(Console.ReadLine());
         Console.WriteLine("Enter the Address: ");
         Address = Console.ReadLine():
       public void PrintEmployee()
         Console.WriteLine($"Name={Name},Age={Age},Address={Address}");
       }
  internal class Program
    static void Main(string[] args)
       Employee emp1 = new Employee();
       emp1.ReadEmployee();
       emp1.PrintEmployee();
       Console.ReadLine();
```

```
Output:

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Enter the Name:
Praveen Chakravarthi
Enter the Age:
21
Enter the Address:
Hyderabad
Name=Praveen Chakravarthi, Age=21, Address=Hyderabad
```



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

Class:

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

Obiect:

- 1. An Object is an instance of a class
- 2. Objects occupy memory
- 3. Objects are reference types
- 4. We can create any number of objects
- 4. Create below classes:
- a. Customer
- b. Product
- c. Seller
- d. Department

```
using System;
using System.Collections.Generic;
using System.Ling;
using System.Text;
using System. Threading. Tasks;
namespace Day_7_Project_2
{
  // Author : Praveen Chakravarthi
  // Purpose : 4 Classes Program
  // Customer Class
  class Customer
    private string CustomerName;
     private string CustomerEmailid;
    private int CustomerAge;
     public void ReadCustomer()
       Console.WriteLine("Enter the Name: ");
       CustomerName = Console.ReadLine();
       Console.WriteLine("Enter the Emailid: ");
       CustomerEmailid = Console.ReadLine();
       Console.WriteLine("Enter the Age: ");
       CustomerAge =Convert.ToInt32(Console.ReadLine());
```

```
}
    public void PrintCustomer()
       Console.WriteLine($"CustomerName={CustomerName},
CustomerEmailid={CustomerEmailid}, CustomerAge={CustomerAge}");
 }
  // Class Product
  class Product
    private string ProductName;
    private string ProductBrand;
    private int ProductPrice;
    public void ReadProduct()
       Console.WriteLine("Enter the ProductName: ");
       ProductName =Console.ReadLine();
       Console.WriteLine("Enter the ProductBrand: ");
       ProductBrand = Console.ReadLine();
       Console.WriteLine("Enter the ProductPrice: ");
       ProductPrice = Convert.ToInt32(Console.ReadLine());
    public void PrintProduct()
       Console.WriteLine($"ProductName={ProductName},
ProductBrand={ProductBrand}, ProductPrice={ProductPrice}");
  }
  // Class Seller
  class Seller
    private string SellerName;
    private string SellerEmailid;
    private int SellerAge;
    public void ReadSeller()
       Console.WriteLine("Enter the SellerName: ");
       SellerName = Console.ReadLine();
       Console.WriteLine("Enter the SellerEmailid: ");
       SellerEmailid = Console.ReadLine();
       Console.WriteLine("Enter the SellerAge: ");
       SellerAge =Convert.ToInt32(Console.ReadLine());
    }
```

```
public void PrintSeller()
       Console.WriteLine($"SellerName={SellerName}, SellerEmailid={SellerEmailid},
SellerAge={SellerAge}");
  }
  // Class Department
  class Department
    private string DepartmentHead;
    private string DepartmentType;
    private int DepartmentStrength;
    public void ReadDepartment()
       Console.WriteLine("Enter the DepartmentHead: ");
       DepartmentHead = Console.ReadLine();
       Console.WriteLine("Enter the DepartmenType: ");
       DepartmentType = Console.ReadLine();
       Console.WriteLine("Enter the DepartmentStrength: ");
       DepartmentStrength = Convert.ToInt32(Console.ReadLine());
    public void PrintDepartment()
       Console.WriteLine($"DepartmentHead={DepartmentHead},
DepartmentType={DepartmentType}, DepartmentStrength={DepartmentStrength}");
  }
  internal class Program
    static void Main(string[] args)
       Customer Cust1 = new Customer();
       Cust1.ReadCustomer();
       Cust1.PrintCustomer();
       Product Prod1 = new Product();
       Prod1.ReadProduct();
       Prod1.PrintProduct();
       Seller Sell1 = new Seller();
       Sell1.ReadSeller();
       Sell1.PrintSeller();
       Department Dept1 = new Department();
       Dept1.ReadDepartment();
       Dept1.PrintDepartment();
       Console.ReadLine();
    }
```

```
}
```

```
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Enter the Name:
Rajesh
Enter the Emailid:
abc@gmail.com
Enter the Age:
CustomerName=Rajesh, CustomerEmailid=abc@gmail.com, CustomerAge=34
Enter the ProductName:
Television
Enter the ProductBrand:
LG
Enter the ProductPrice:
24999
ProductName=Television, ProductBrand=LG, ProductPrice=24999
Enter the SellerName:
Anil
Enter the SellerEmailid:
bcd@gmail.com
Enter the SellerAge:
43
SellerName=Anil, SellerEmailid=bcd@gmail.com, SellerAge=43
Enter the DepartmentHead:
Roshan
Enter the DepartmenType:
Packing
Enter the DepartmentStrength:
40
DepartmentHead=Roshan, DepartmentType=Packing, DepartmentStrength=40
```

5. Create Employee class with 3 public variables. Create Employee object and initialise with values while creating object and print the values.

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

```
namespace Day_7_Project_3
{
  // Author : Praveen Chakravarthi
  // Purpose : Initialising values while object creation to Employee Class
  class Employee
    public string Name;
    public int Age;
    public string Address;
  internal class Program
    // Initialising Values at Object Creatiom
    static void Main(string[] args)
       Employee emp1 = new Employee() { Name = "Pranay", Age = 23, Address =
"Bangalore" };
       Console.WriteLine($"EmployeeName={emp1.Name}, EmployeeAge={emp1.Age},
EmployeeAddress={emp1.Address}");
       Console.ReadLine();
    }
  }
```

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EmployeeName=Pranay, EmployeeAge=23, EmployeeAddress=Bangalore

```
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
a. for loop
b. foreach 100p
c.lambda expression.
```

```
using System;
using System.Collections.Generic;
using System.Ling;
using System.Text;
using System. Threading. Tasks;
namespace Day 7 Project 4
  // Author : Praveen Chakravarthi
  // Purpose : Employees class using Arrays and Printing Values using Various loops
  // Class Employee
  class Employee
    public int ld;
    public string Name;
    public int Salary;
  internal class Program
    static void Main(string[] args)
       Employee[] emp = new Employee[]
       new Employee() {Id=1, Name= "Akash", Salary=25000},
       new Employee() {Id=2, Name= "Bhanu", Salary=30000},
       new Employee() {Id=3, Name= "Ramu", Salary=35000},
       new Employee() {Id=4, Name= "Dinesh", Salary=40000},
       new Employee() {Id=5, Name= "Sai", Salary=50000}
       };
       // Printing Values using For Loop
       for (int i = 0; i < emp.Length; i++)
         Console.WriteLine($"Id={emp[i].Id}, Name={emp[i].Name},
Salary={emp[i].Salary}");
       // Printing Values using Foreach Loop
       foreach (var e in emp)
       {
         Console.WriteLine($"Id={e.Id}, Name= {e.Name}, Salary= {e.Salary}");
       }
```

```
// Printing Values of using Lambda Expression
emp.ToList().ForEach(e => Console.WriteLine($"Id={e.Id}, Name= {e.Name},
Salary= {e.Salary}"));

Console.ReadLine();
}
}
```

```
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Id=1. Name=Akash. Salary=25000
```

```
Name=Akash, Salary=25000
Name=Bhanu, Salary=30000
Name=Ramu. Salary=35000
Name=Dinesh,
              Salary=40000
           Salary=50000
Name=Sai.
              Salary= 25000
Name=
      Akash,
Name= Bhanu, Salary= 300<u>00</u>
             Salary= 35000
Name= Ramu,
Name= Dinesh,
               Salary= 40000
Name= Sai, Salary= 50000
Name= Akash, Salary= 25000
Name= Bhanu, Salary= 30000
Name= Ramu, Salary= 35000
Name= Dinesh,
               Salary=40000
Name= Sai, Salary= 50000
```

```
7. For the above project write code to print employees who is getting salary >=5000 using a. for loop b. foreach loop c. lambda expression
```

```
using System;
using System.Collections.Generic;
using System.Ling;
using System.Text;
using System.Threading.Tasks;
namespace Day_7_Project_5
  // Author : Praveen Chakravarthi
  // Purpose : Employees class using Arrays with If Condition
  // Class Employee
  class Employee
     public int ld;
     public string Name;
     public int Salary;
     internal class Program
     static void Main(string[] args)
       Employee[] emp = new Employee[]
       new Employee() {Id=1, Name= "Akash", Salary=25000},
       new Employee() {Id=2, Name= "Bhanu", Salary=30000}, new Employee() {Id=3, Name= "Ramu", Salary=35000},
       new Employee() {Id=4, Name= "Dinesh", Salary=40000},
       new Employee() {Id=5, Name= "Sai", Salary=50000}
       // Printing Values using For Loop
       for (int i = 0; i < emp.Length; i++)
          if(emp[i].Salary>=35000)
          Console.WriteLine($"Id={emp[i].Id}, Name={emp[i].Name},
Salary={emp[i].Salary}");
       // Printing Values using Foreach Loop
       foreach (var e in emp)
          if(e.Salary>=35000)
          Console.WriteLine($"Id={e.Id}, Name= {e.Name}, Salary= {e.Salary}");
       }
       // Printing Values of using Lambda Expression
       emp.ToList().Where(e => e.Salary >= 35000).ToList().ForEach(e =>
Console.WriteLine($"Id={e.Id}, Name= {e.Name}, Salary= {e.Salary}"));
       Console.ReadLine();
```

```
} }
```

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```
Id=3, Name=Ramu, Salary=35000
Id=4, Name=Dinesh, Salary=40000
Id=5, Name=Sai, Salary=50000
Id=3, Name= Ramu, Salary= 35000
Id=4, Name= Dinesh, Salary= 40000
Id=5, Name= Sai, Salary= 50000
Id=3, Name= Ramu, Salary= 35000
Id=4, Name= Dinesh, Salary= 40000
Id=5, Name= Sai, Salary= 50000
```