DAY 7 MORNING ASSIGNMENT (01/02/2022)

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Create Employee class with three variables and two methods
 RaedEmployee and PrintEmployee 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 Day7MorningProject1
    internal class Employee //class of employee
        // private variables
        private int id;
        private string name;
        private int age;
        private int salary;
        // public methods dealswith variables
        public void ReadEmployee() //read values from user
            Console.WriteLine("Enter the EmpId :");
            id = Convert.ToInt32(Console.ReadLine());
            Console.WriteLine("Enter the Name :");
            name= Console.ReadLine();
            Console.WriteLine("Enter the Age :");
            age= Convert.ToInt32(Console.ReadLine());
            Console.WriteLine("Enter the Salary :");
            salary = Convert.ToInt32(Console.ReadLine());
        }
        public void printEmployee() //pint employee details of function call
            Console.WriteLine("EmpID : {0}, Name : {1}, Age : {2}, Salary : {3}", id,
name, age, salary);
        }
    internal class Program
```

```
static void Main(string[] args)
{
    Employee emp1 = new Employee(); //read values from user
    emp1.ReadEmployee();
    emp1.printEmployee();

    Console.ReadLine();
}
}
```

```
Enter the EmpId :
155
Enter the Name :
SARATH
Enter the Age :
25
Enter the Salary :
15000
EmpID : 155, Name : SARATH, Age : 25, Salary : 15000
```

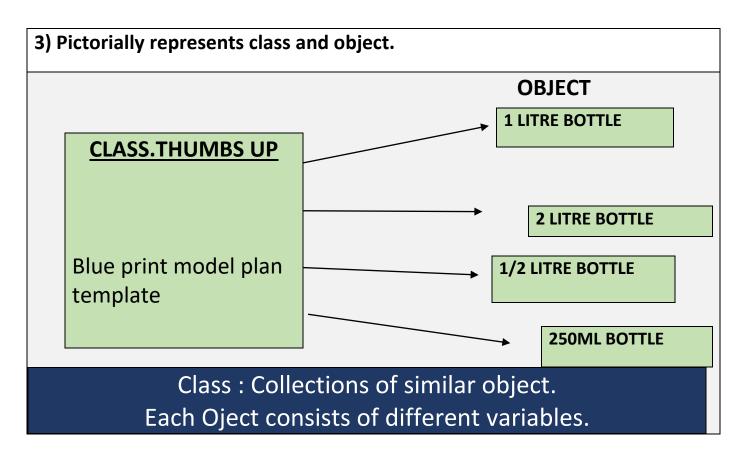
2) Write the point about class and object discussed in the class.

Class:

- Class is group of variable and method.
- Class is like a design to create a object.
- A class consists of state(variable) and behavior(method).

Objects:

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



5) Create Employee object and initialize with values while creating object abs print the values.

CODE:

```
using System;
using System.Collections.Generic;
using System.Ling;
using System.Text;
using System.Threading.Tasks;
// sarath kasimsetty
//Create Employee object and initialize with values while creating object and
print the values.
namespace Day7MorningProject5
    internal class Employee
    {
        public int Id;
        public string Name;
        public int Salary;
    internal class Program
        static void Main(string[] args)
            Employee emp = new Employee() { Id = 12, Name = "sarath", Salary =
265626 };
            Console.WriteLine("EmpId = {0} ,Name= {1} ,Salary ={2}", emp.Id,
emp.Name, emp.Salary);
            Console.ReadLine();
        }
    }
```

```
EmpId = 12 , Name= sarath ,Salary =265626_
```

6) create employees array object and initialize with 5 employees write code using for loop ,for loop ,lambda expression.

CODE:

```
using System;
using System.Collections.Generic;
using System.Ling;
using System.Text;
using System.Threading.Tasks;
//sarath kasimsetty
//create employees array object and initialize with 5 employees
//write code using for loop, for loop , lambda expression.
namespace Day7MorningProject6
   internal class Employee
       public int Id;
       public string Name;
       public int salary;
   internal class Program
       static void Main(string[] args)
           Employee[] employees = new Employee[]
               new Employee(){Id = 101, Name = "sarath", salary=1000},
               new Employee(){Id = 102, Name = "phani" , salary=1200},
new Employee(){Id = 103, Name = "suresh", salary=1400},
               new Employee(){Id = 104, Name = "ramesh", salary=1500},
               new Employee(){Id = 105, Name = "mahesh", salary=1700}
           };
           //forloop
           for (int i=0;i<employees.Length;i++)</pre>
               Console.WriteLine($"EmpId = {employees[i].Id}, EmpName =
{employees[i].Name}, Empsalary = {employees[i].salary}");
           //foreach loop
           Console.WriteLine("*******************Print by using Foreach
Loop******************************);
           foreach (var d in employees)
               Console.WriteLine("Empid = {0}, EmpName = {1}, Empsalary =
{2}",d.Id,d.Name,d.salary);
            //lambda expression
```

```
Console.WriteLine("********************************
expression*********************************
employees.ToList().ForEach(e => Console.WriteLine("Empid = {0},EmpName = {1},Empsalary = {2}", e.Id, e.Name, e.salary));

Console.ReadLine();
}
}

Console.ReadLine();
}
```

```
EmpId = 101, EmpName = sarath, Empsalary = 1000
EmpId = 102, EmpName = phani, Empsalary = 1200
EmpId = 103, EmpName = suresh, Empsalary = 1400
EmpId = 104, EmpName = ramesh, Empsalary = 1500
EmpId = 105, EmpName = mahesh, Empsalary = 1700
Empid = 101,EmpName = sarath,Empsalary = 1000
Empid = 102,EmpName = phani,Empsalary = 1200
Empid = 103,EmpName = suresh,Empsalary = 1400
Empid = 104, EmpName = ramesh, Empsalary = 1500
Empid = 105,EmpName = mahesh,Empsalary = 1700
Empid = 101, EmpName = sarath, Empsalary = 1000
Empid = 102,EmpName = phani,Empsalary = 1200
Empid = 103, EmpName = suresh, Empsalary = 1400
Empid = 104, EmpName = ramesh, Empsalary = 1500
Empid = 105, EmpName = mahesh, Empsalary = 1700
```

7) Write code to print employees who is getting salary >=1500 using for loop, for each loop, lambda expression.

CODE:

```
using System;
using System.Collections.Generic;
using System.Ling;
using System.Text;
using System.Threading.Tasks;
//sarath kasimsetty
// write code to print employees who is getting salary >=1500 using
// for loop, foreach loop, lambda expression
namespace Day7MorningProject7
    internal class Employee
        public int Id;
        public string Name;
        public int salary;
    internal class Program
        static void Main(string[] args)
             Employee[] employees = new Employee[]
                 new Employee(){Id = 101, Name = "sarath", salary=1000},
                 new Employee(){Id = 102, Name = "phani" , salary=1200},
new Employee(){Id = 103, Name = "suresh", salary=1400},
                 new Employee(){Id = 104, Name = "ramesh", salary=1500},
new Employee(){Id = 105, Name = "mahesh", salary=1700}
             };
             //forloop
             Console.WriteLine("*******************Print by using For
for (int i = 0; i < employees.Length; i++)</pre>
                 if (employees[i].salary >= 1500)
                     Console.WriteLine($"EmpId = {employees[i].Id}, EmpName =
{employees[i].Name}, Empsalary = {employees[i].salary}");
             //foreach loop
            Console.WriteLine("******************************Print by using Foreach
foreach (var d in employees)
                 if (d.salary >= 1500)
                     Console.WriteLine("Empid = {0}, EmpName = {1}, Empsalary = {2}", d.Id,
d.Name, d.salary);
```

8) Similar to 6 and 7 projects create list of Customer an Product Arrays and practice for, foreach and lambda expression

CODE: Class of customer

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

namespace Day7MorningProject8
{
   internal class Customer
   {
     public int Id;
     public string name;
     public string email;
   }
}
```

CODE: Class if product

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

namespace Day7MorningProject8
{
   internal class Product
   {
     public int Id;
     public string Name;
     public int Price;
   }
}
```

CODE: system.cs

```
new Customer(){Id = 3 ,name = "sai" ,email = "599@gmail.com" }
          };
          Product[] products = new Product[]
              new Product(){Id = 1 , Name="footwear", Price= 4522},
              new Product(){Id = 2 , Name="footwear", Price= 5487},
              new Product(){Id = 3 , Name="footwear", Price= 458},
              new Product(){Id = 4 , Name="footwear", Price= 457},
              new Product(){Id = 5 , Name="footwear", Price= 478}
          };
Console.WriteLine("******ForLoop*******");
          //for loop
          for (int i=0; i < Customers.Length ;i++ )</pre>
              Console.WriteLine("Id = {0} , CustomerName = {1} email = {2}",
Customers[i].Id, Customers[i].name, Customers[i].email);
          Console.WriteLine("********foreach********");
          //foreach loop
          foreach(var d in Customers)
              Console.WriteLine("Id = {0} , CustomerName = {1} , CustomerEmail =
{2}",d.Id,d.name,d.email);
          Console.WriteLine("********lambda expression*********");
          //Lambda Expression
          Customers.ToList().ForEach(d => Console.WriteLine("Id = {0} , CustomreName = {1}
, CustomerEmail = {2}", d.Id, d.name, d.email));
Console.WriteLine("********foreach********");
          for (int i = 0; i < products.Length; i++)</pre>
              Console.WriteLine("Id = {0} , ProductName = {1} ProductPrice = {2}",
products[i].Id, products[i].Name, products[i].Price);
          Console.WriteLine("********foreach loop********");
          //foreach loop
          foreach (var d in products)
              Console.WriteLine("Id = {0} , ProductName = {1} , productPrice = {2}", d.Id,
d.Name, d.Price);
          Console.WriteLine("********lambda expression*********");
          //Lambda Expression
          products.ToList().ForEach(d => Console.WriteLine("Id = {0} , ProductName = {1} ,
ProductPrice = {2}", d.Id, d.Name, d.Price));
```

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

```
**************************class.customer**************
********ForLoop******
Id = 1 , CustomerName = sarath email = 586@mail.com
Id = 2 , CustomerName = ravi email = 255@gmail.com
Id = 3 , CustomerName = sai email = 599@gmail.com
************foreach******
Id = 1 , CustomerName = sarath , CustomerEmail = 586@mail.com
Id = 2 , CustomerName = ravi , CustomerEmail = 255@gmail.com
Id = 3 , CustomerName = sai , CustomerEmail = 599@gmail.com
*********lambda expression********
Id = 1 , CustomreName = sarath , CustomerEmail = 586@mail.com
Id = 2 , CustomreName = ravi , CustomerEmail = 255@gmail.com
Id = 3 , CustomreName = sai , CustomerEmail = 599@gmail.com
************foreach******
Id = 1 , ProductName = footwear ProductPrice = 4522
Id = 2 , ProductName = footwear ProductPrice = 5487
Id = 3 , ProductName = footwear ProductPrice = 458
Id = 4 , ProductName = footwear ProductPrice = 457
Id = 5 , ProductName = footwear ProductPrice = 478
************foreach loop******
Id = 1 , ProductName = footwear , productPrice = 4522
Id = 2 , ProductName = footwear , productPrice = 5487
Id = 3 , ProductName = footwear , productPrice = 458
Id = 4 , ProductName = footwear , productPrice = 457
Id = 5 , ProductName = footwear , productPrice = 478
**********lambda expression*********
Id = 1 , ProductName = footwear , ProductPrice = 4522
Id = 2 , ProductName = footwear , ProductPrice = 5487
Id = 3 , ProductName = footwear , ProductPrice = 458
Id = 4 , ProductName = footwear , ProductPrice = 457
Id = 5 , ProductName = footwear , ProductPrice = 478
```