DAY7 MORNNING ASSIGNMENT BY ANDE MANOHAR 1ST FEB 2022

Q1.Create Employees class with three variables and two methods ReadEmployees and printemployee and create an object and call methods

```
Code:
```

```
using System;
using System.Collections.Generic;
using System.Ling;
using System.Text;
using System.Threading.Tasks;
namespace DAY7_morning_project1
   //**********************************
  //Author: ANDE MANOHAR
  //Purpose : To create Employee class with three variables and two methods
  class Employees
    private int Id;
    private string Name;
    private 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}");
  internal class Program
    static void Main(string[] args)
       Employees Emp1 = new Employees();
       Employees Emp2 = new Employees();
      Emp1.ReadEmployee();
```

```
Emp2.ReadEmployee();
       Emp1.printEmployee();
       Emp2.printEmployee();
       Console.ReadLine();
    }
  }
Output:
 D:\NBTRAININGS\DAY7 MORNING ASSIGNMENT\DAY7 morning project1\DAY7 morning project...
 Enter Id
105
Enter Name
Manohar
                                                                                                                 Ξ
 Enter salary
 1200
 Enter Id
106
 Enter Name
 shiva
 Enter salary
15000
 Id = 105,Name=Manohar,Salary=1200
Id = 106,Name=shiva,Salary=15000
```

Q2. Write 3 definations of class and 4 points about object discussed in class

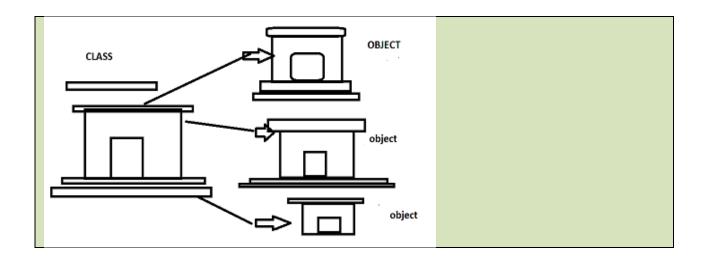
Class Defination:

- 1. A class is group of variables and Methods
- 2. A class is like Design or blue print to create an object
- 3. A class consists of state (Variables) and Behaviour (Methods)

Points on object:

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

Q3. Pictorial represenation of Class and Multiple objects



Q4. Create below classes

```
Code: class product:
using System;
using System.Collections.Generic;
using System.Ling;
using System.Text;
using System.Threading.Tasks;
namespace DAY7_product
  //*********************
  //Author: ANDE MANOHAR
  //Purpose : To create Product class with three variables and two methods
  class Product
    private int price;
    private string brand;
    private string colour;
    public void ReadProduct()
      Console.WriteLine("Enter price");
      price = Convert.ToInt32(Console.ReadLine());
      Console.WriteLine("Enter brand");
      brand = Console.ReadLine();
      Console.WriteLine("Enter colour");
      colour = Console.ReadLine();
    public void Printproduct()
      Console.WriteLine($"price{price},brand{brand}colour{colour}");
```

```
internal class Program
       static void Main(string[] args)
          Product p1 = new Product();
          Product p2 = new Product();
          p1.ReadProduct();
          p2.ReadProduct();
          p1.Printproduct();
          p2.Printproduct();
          Console.ReadLine();
  }
Output:
 D:\NBTRAININGS\DAY7 MORNING ASSIGNMENT\DAY7 product\DAY7 product\bin\Debug\DAY7...
 Enter price
200
Enter brand
 uspolo
Enter colour
black
 Enter price
200
  Enter brand
  us po lo
 Enter colour
black
 price200, brandus po loco lourblack
price200, brandus po loco lourblack
```

```
//Purpose : To create Customer class with three variables and two methods
  class customer
    private string username;
    private string password;
    private string email;
    public void Readcustomer()
       Console.WriteLine("Enter username:");
       username = Console.ReadLine();
       Console.WriteLine("Enter password:");
       password = Console.ReadLine();
       Console.WriteLine("Enter email:");
       email = Console.ReadLine();
    public void Printcustomer()
       Console.WriteLine($"username={username},password={password},email={email}:");
  internal class Program
    static void Main(string[] args)
       customer Cust1 = new customer();
       customer Cust2 = new customer();
       Cust1.Readcustomer();
       Cust2.Readcustomer();
       Cust1.Printcustomer();
       Cust2.Printcustomer();
       Console.ReadLine();
Output:
```

```
D:\NBTRAININGS\DAY7 MORNING ASSIGNMENT\DAY7 Morning project2\DAY7 Morning project2...
Enter username :
sonu
Enter password:
รงทน123ิ้
Enter email :
sonu2gmail.com
Enter username :
sonu
Enter
      password:
รงทน123ิ้
Enter email :
sonu@gmail.com
username=sonu,password=sonu123,email=sonu2gmail.com:
username=sonu,password=sonu123,email=sonu@gmail.com:
```

```
Class seller
```

```
Code:
using System;
using System.Collections.Generic;
using System.Ling;
using System.Text;
using System.Threading.Tasks;
namespace DAY7_class_seller
  //Author: ANDE MANOHAR
  //Purpose : To create seller class with three variables and two methods
  class seller
    private string name;
    private string email;
    private int mobile;
    public void Readseller()
      Console.WriteLine("Enter sellername:");
      name = Console.ReadLine();
      Console.WriteLine("Enter email:");
      email = Console.ReadLine();
      Console.WriteLine("Enter mobile number:");
      mobile = Convert.ToInt32(Console.ReadLine());
    public void Printseller()
      Console.WriteLine($"name={name},email={email},mobile={mobile}");
    internal class Program
```

```
static void Main(string[] args)
            seller s1 = new seller();
            seller s2 = new seller();
            s1.Readseller();
            s2.Readseller();
            s1.Printseller();
            s2.Printseller();
            Console.ReadLine();
        }
  }
Output:
D:\NBTRAININGS\DAY7 MORNING ASSIGNMENT\DAY7 class seller\DAY7 class seller\bin\Debug\D...
Enter sellername :
manohar
                                                                                                                                         Enter email:
manohar.ande@gmail.com
Enter mobile number :
00000000000
 Enter sellername :
 manohar
manonar
Enter email:
manohar.ande@gmail.com
Enter mobile number :
00000000000
 name=manohar,email=manohar.ande@gmail.com,mobile=0
name=manohar,email=manohar.ande@gmail.com,mobile=0
```

```
private string email;
    private int mobile;
    public void Readdepartment()
       Console.WriteLine("Enter dealername:");
       dealername = Console.ReadLine();
       Console.WriteLine("Enter email:");
       email = Console.ReadLine();
       Console.WriteLine("Enter mobile number:");
       mobile = Convert.ToInt32(Console.ReadLine());
    public void Printdepartment()
       Console.WriteLine($"dealername={dealername},email={email},mobile={mobile}");
    }
    internal class Program
       static void Main(string[] args)
         department d1 = new department();
         department d2 = new department();
         d1.Readdepartment();
         d2.Readdepartment();
         d1.Printdepartment();
         d2.Printdepartment();
         Console.ReadLine();
Output:
```

```
Enter dealername:
kiran
Enter email:
kiran@gmail.com
Enter mobile number:
0000000000
Enter dealername:
kiran
Enter email:
kiranegmail.com
Enter dealername:
kiran
Enter email:
kiranegmail.com
Enter email:
kiranegmail.com
Enter mobile number:
0000000000
dealername=kiran.email=kiranegmail.com,mobile=0
dealername=kiran.email=kiranegmail.com,mobile=0
```

Q.5 Create Employee class with 3 public variables

Create employee object 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 Day7_object_initialization_project
//Author: ANDE MANOHAR
  //Purpose : To create Employee class with three public variables and creating
                                                                                 object
  class Employee
    public int id;
    public string name;
    public int salary;
  }
  internal class Program
    static void Main(string[] args)
      Employee emp = new Employee() { id = 2, name = "manohar", salary = 50000 };
      Console.WriteLine($"id ={emp. id},name ={emp.name} salry={emp .salary}");
      Console.ReadLine();
  }
```

```
Output:

D:\NBTRAININGS\DAY7 MORNING ASSIGNMENT

id =2,name =manohar salry=50000
```

```
Q6.Create Employees class as shown below
Class Employees
{
Public int id;
Public string name;
Public in salary;
Now create employees array object and initialize with 5 employeees
Write code using
a.for loop
b.for each loop
c.lamda expression
Code:
using System;
using System.Collections.Generic;
using System.Ling;
using System.Text;
using System.Threading.Tasks;
  //Author: ANDE MANOHAR
 //Purpose : To create Employee class array and initializing 5 employees
  namespace DAY_7_Employees_using_public
 class Employees
   public int id;
   public string name;
   public int salary;
  internal class Program
   static void Main(string[] args)
      Employees[] employees = new Employees[]
          new Employees (){id=1,name = "Manohar",salary = 5000},
         new Employees (){id=2,name = "Mohan",salary = 6000},
```

```
new Employees (){id=3,name = "Ramu",salary = 7000},
                 new Employees (){id=4,name = "krishna",salary = 9000},
                 new Employees (){id=5,name = "Kiran",salary = 10000},
             };
          //for loop
          for (int i = 0; i < employees.Length; i++)</pre>
              Console.WriteLine($" id={employees[i].id},Name={employees[i].name},salary={employees[i].salary}");
          //foreach loop
          foreach(var e in employees)
              Console.WriteLine($"id ={e.id},Name={e.name},salary={e.salary}");
          //Lambda expression
          employees.ToList().ForEach(e => Console.WriteLine($"id = {e.id},Nmae={e.name},salary={e.salary}"));
          Console.ReadLine();
      }
   }
}
Output:
   🔳 D:\NBTRAININGS\DAY7 MORNING ASSIGNMENT\DAY 7 Employees using public\DAY 7 Employee... 🖵 🖳
     id=1,Name=Manohar,salary=5000
id=2,Name=Mohan,salary=6000
id=3,Name=Ramu,salary=7000
id=4,Name=krishna,salary=9000
id=5,Name=Kiran,salary=10000
d=1,Name=Manohar,salary=5000
d=2,Name=Ramu,salary=6000
d=3,Name=Ramu,salary=7000
        =3, Name=Ramu, salary=7000
=4, Name=krishna, salary=9000
=5, Name=Kiran, salary=10000
              ,Nmae=Manohar,salary=5000
            2, Nmae-Mohan, salary-6000
2, Nmae-Romu, salary-6000
3, Nmae-Ramu, salary-7000
4, Nmae-krishna, salary-9000
5, Nmae-Kiran, salary-10000
```

```
Q7. For the above project,write code tto print employees who is getting salry >=5000 using
a. for loop
b.foreach
c.lambda expression

Code:
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
namespace DAY7_Employees_5000_salary
{
```

```
class Employees
    public int id;
    public string name;
    public int salary;
  internal class Program
    static void Main(string[] args)
       Employees[] employees = new Employees[]
            new Employees (){id=1,name = "Manohar",salary = 5000},
            new Employees (){id=2,name = "Mohan",salary = 6000},
            new Employees (){id=3,name = "Ramu",salary = 7000},
            new Employees (){id=4,name = "krishna",salary = 2000},
            new Employees (){id=5,name = "Kiran",salary = 10000},
         };
       //for loop
       for (int i = 0; i < employees.Length; i++)</pre>
       {
         if (employees[i].salary >= 5000)
            Console.WriteLine($"
id={employees[i].id},Name={employees[i].name},salary={employees[i].salary}");
       //foreach loop
       foreach (var e in employees)
       {
         if(e.salary > = 5000)
         Console.WriteLine($"id ={e.id},Name={e.name},salary={e.salary}");
       //Lambda expression
       employees.ToList().Where(e=>e.salary>=5000).ToList().ForEach(e => Console.WriteLine($"id =
{e.id},Name={e.name},salary={e.salary}"));
       Console.ReadLine();
    }
  }
```

Output:

```
id=1, Name=Manohar, salary=5000
id=2, Name=Mohan, salary=6000
id=3, Name=Ramu, salary=7000
id=5, Name=Kiran, salary=5000
id=1, Name=Mohan, salary=5000
id=2, Name=Mohan, salary=5000
id=3, Name=Ramu, salary=5000
id=3, Name=Ramu, salary=7000
id=3, Name=Ramu, salary=7000
id=5, Name=Kiran, salary=10000
id=1, Name=Manohar, salary=5000
id=2, Name=Manohar, salary=6000
id=3, Name=Ramu, salary=6000
id=3, Name=Ramu, salary=6000
id=3, Name=Ramu, salary=10000
```

Q8.Similar to 6 and 7 projects create list of customers and product Arrays and practice for for loop,foreach,and lambda expressions

Code for class customers:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
namespace DAY7_Customer_class_using_lambda
  class Customers
    public int id;
    public string name;
    public int age;
  internal class Program
    static void Main(string[] args)
       Customers [] customers = new Customers[]
            new Customers (){id=1,name = "Manohar",age = 20},
            new Customers (){id=2,name = "Mohan",age = 15},
            new Customers (){id=3,name = "Ramu",age = 18},
            new Customers (){id=4,name = "krishna",age = 25},
            new Customers (){id=5,name = "Kiran",age = 28},
         };
       //for loop
       for (int i = 0; i < customers.Length; i++)
         Console.WriteLine($" id={customers[i].id},Name={customers[i].name},age={customers[i].age}");
       //foreach loop
       foreach (var e in customers)
```

```
Console.WriteLine($"id ={e.id},Name={e.name},age={e.age}");

}

//Lambda expression
customers.ToList().ForEach(e => Console.WriteLine($"id = {e.id},Name={e.name},salary={e.age}"));

Console.ReadLine();

Ouput:

Danbitalnings(Dayr Morning Assignment\Dayr Customer class using lambda\Dayr Custo...

id=1, Name=Hanohar, age=28
id=1, Name=Ramu, age=18
id=4, Name=Krishna, age=28
id=1, Name=Hanohar, age=15
id=3, Name=Hanohar, age=15
id=3, Name=Hanohar, age=15
id=1, Name=Hanohar, age=15
id=3, Name=Ramu, age=18
id=4, Name=Krishna, age=28
id=1, Name=Hanohar, age=15
id=3, Name=Ramu, age=18
id=4, Name=Krishna, age=28
id=5, Name=Kiran, age=28
id=1, Name=Hanohar, salary=18
id=4, Name=Krishna, salary=18
id=4, Name=Ramu, salary=18
id=4, Name=Ramu, salary=18
id=4, Name=Krishna, salary=28
```

```
Q8b. write code to print class customers whose age >=20 using forloop,foreach,and lambda expressions
Code:
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
namespace DAY7_customer_project2
  class Customers
    public int id;
    public string name;
    public int age;
  }
  internal class Program
    static void Main(string[] args)
       Customers[] customers = new Customers[]
```

```
new Customers (){id=1,name = "Manohar",age = 20},
            new Customers (){id=2,name = "Mohan",age = 15},
            new Customers (){id=3,name = "Ramu",age = 18},
            new Customers (){id=4,name = "krishna",age = 25},
            new Customers (){id=5,name = "Kiran",age = 28},
         };
       //for loop
          for (int i = 0; i < customers.Length; i++)</pre>
         if (customers[i].age >= 20)
            Console.WriteLine($" id={customers[i].id},Name={customers[i].name},age={customers[i].age}");
       //foreach loop
       foreach (var e in customers)
         if (e.age >= 20)
          Console.WriteLine($"id ={e.id},Name={e.name},age={e.age}");
       }
       //Lambda expression
       customers.ToList().Where(e => e.age >=20).ToList().ForEach(e => Console.WriteLine($"id =
{e.id}, Name={e.name}, age={e.age}"));
       Console.ReadLine();
  }
Ouput:
     D:\NBTRAININGS\DAY7 MORNING ASSIGNMENT\DAY7 customer project2\DAY7 customer project...
     l=5,Name=Kiran,age=28
=1,Name=Manohar,age=
=4,Name=krishna,age=
        1, Name = Manohar, age
           Name=krishna,age=2
Name=Kiran,age=28
```

```
Q8C. Class product
Code:
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
```

```
using System.Threading.Tasks;
namespace Day7_product_class_using_lamda
  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=1,name = "uspolo", price =1000},
            new Product (){id=2,name = "puma",price = 1500},
            new Product (){id=3,name = "Nike",price = 1800},
            new Product (){id=4,name = "UCB",price = 2500},
            new Product (){id=5,name = "levis",price = 2800},
         };
       //for loop
       for (int i = 0; i < product.Length; <math>i++)
         Console. WriteLine (\$" id = \{product[i].id\}, Name = \{product[i].name\}, price = \{product[i].price\}"); \\
       //foreach loop
       foreach (var e in product)
         Console.WriteLine($"id ={e.id},Name={e.name},price={e.price}");
       //Lambda expression
       product.ToList().ForEach(e => Console.WriteLine($"id = {e.id},Name={e.name},price={e.price}"));
       Console.ReadLine();
  }
```

Output:

```
id=1, Name=uspolo, price=1000
id=2, Name=puma, price=1500
id=3, Name=Nike, price=1800
id=4, Name=UCB, price=2500
id=5, Name=levis, price=2800
id=1, Name=uspolo, price=1000
id=2, Name=puma, price=1500
id=3, Name=puma, price=1500
id=3, Name=Nike, price=1800
id=4, Name=UCB, price=2500
id=4, Name=UCB, price=2500
id=5, Name=levis, price=2800
id=1, Name=uspolo, price=1000
id=2, Name=puma, price=1500
id=3, Name=Nike, price=1500
id=3, Name=Nike, price=1800
id=4, Name=UCB, price=2500
id=5, Name=levis, price=2800
id=5, Name=levis, price=2800
```

Q8D . write code to print class PRODUCT whose price >=2000 using forloop,foreach,and lambda expressions

```
Code:
```

```
using System;
using System.Collections.Generic;
using System.Ling;
using System.Text;
using System.Threading.Tasks;
namespace DAY7_product_class2
  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=1,name = "uspolo", price =1000},
            new Product (){id=2,name = "puma",price = 1500},
            new Product (){id=3,name = "Nike",price = 1800},
            new Product (){id=4,name = "UCB",price = 2500},
            new Product (){id=5,name = "levis",price = 2800},
         };
       //for loop
       for (int i = 0; i < product.Length; i++)</pre>
         if (product[i].price >= 1800)
            Console.WriteLine($" id={product[i].id},Name={product[i].name},price={product[i].price}");
       //foreach loop
```

```
foreach (var e in product)
    if (e.price >= 1800)

{
        Console.WriteLine($"id ={e.id},Name={e.name},price={e.price}");
}

//Lambda expression

product.ToList().Where(e => e.price >= 1800).ToList().ForEach(e => Console.WriteLine($"id = {e.id},Name={e.name},price={e.price}"));

Console.ReadLine();

}
}

Output:

DANBTRAININGS\DAY7 MORNING ASSIGNMENT\DAY7 product class2\DAY7 product class2\bin\...

id =3, Name =Nike, price=1800
    id =5, Name =Levis, price=2800
    id =5, Name =UCB, price=2800
    id =4, Name=UCB, price=2800
    id =3, Name=Nike, price=2800
    id =3, Name=Nike, price=2800
    id =3, Name=Nike, price=2800
    id =4, Name=UCB, price=2800
    id =3, Name=Nike, price=2800
    id =3, Name=Nike, price=2800
    id =5, Name=Levis, price=2800
    id =5, Name=Levis, price=2800
```