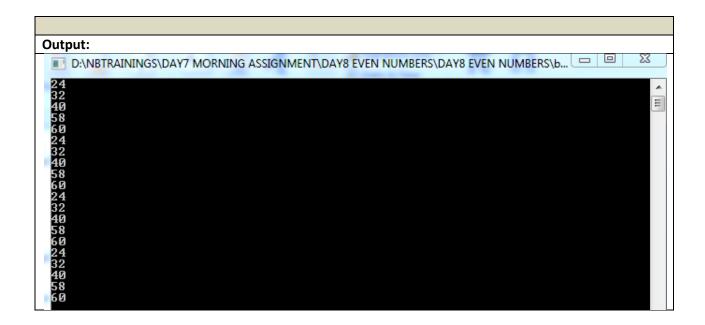
DAY 8 ASSIGNMENT BY ANDE MANOHAR 2ND FEB 2022

Q1. Declare and initialize list of 8 values. Write for loop, for each loop, lambda expression and LINQ query to print the even numbers.

CODE:

```
using System;
using System.Collections.Generic;
using System.Ling;
using System.Text;
using System.Threading.Tasks;
namespace DAY8_EVEN_NUMBERS
  internal class Program
     static void Main(string[] args)
       List<int> data = new List<int> { 24, 29, 32, 40, 55, 58, 60, 65 };
       //forlooop
       for (int i = 0; i < data.Count; i++)
         if (data[i] % 2 == 0)
            Console.WriteLine(data[i]);
       //foreach loop
       foreach(var d in data)
         if(d\%2 == 0)
            Console.WriteLine(d);
       // lamda expression
       data.ToList().Where(d => d % 2 == 0).ToList().ForEach(d => Console.WriteLine(d));
       // LING query
       var result = from d in data
               where d % 2 == 0
               select d;
       result.ToList().ForEach(d => Console.WriteLine(d));
       Console.ReadLine();
```



Q2. Create a class Employees with three variable as discussed in the class and create a list of employees write for loop, foreach, lambda expression, LINQ query

Code:

```
using System;
using System.Collections.Generic;
using System.Ling;
using System.Text;
using System.Threading.Tasks;
namespace DAY8_Class_emoloyees
  class Employees
    public int id;
    public string name;
    public int salary;
  internal class Program
    static void Main(string[] args)
       List<Employees> employees = new List<Employees>
         new Employees() {id = 1, name = "MANOHAR" ,salary = 5000},
         new Employees() {id = 2, name = "shashank" ,salary = 5000},
         new Employees () {id = 3, name = "Sharath", salary = 7000},
         new Employees () {id = 4, name = "Kiran", salary = 8000},
         new Employees () {id = 5,name = " sandeep", salary = 9000},
```

```
};
      // for loop;
      for (int i = 0; i < employees.Count; i++)</pre>
          Console.WriteLine($"id ={employees[i].id},name ={employees[i].name}, salary ={employees[i].salary}");
      //for each
      foreach(var e in employees)
          Console.WriteLine($"id = {e.id}, name = {e.name}, salary ={e.salary}");
       //for Lambda expression
       employees.ToList().ForEach(e => Console.WriteLine($"id = {e.id},name={e.name},salary = {e.salary}"));
       //LINQ query
       var result = from e in employees
       result.ToList().ForEach(e => Console.WriteLine($"id = { e.id},name ={ e.name},salary = { e.salary}"));
       Console.ReadLine();
Code:
     D:\NBTRAININGS\DAY8 MORNING ASSIGNMENTS\DAY8 Class emoloyees\DAY8 Class emoloyee...
     =2,name
=3,name
                   hashank, salary =5000
Sharath, salary =7000
Kiran, salary =8000
                =shashank, salary
 id
      =4,name
                   sandeep, salary =9000
= MANOHAR, salary =5000
      =5,name
            name
                      shashank,
            name
                       Sharath,
                       Kiran, salary =8000
            name
                       sandeep,
            name
        1,name=MANOHAR,salary
        2,name=shashank,salary
                   Sharath, salary
        4,name= Kiran,salary
        5,name=
                 =MANOHAR,salary
        1,name
        2,name
3,name
                  =shashank,salary
          ,name
                    Sharath, salary
                    Kiran, salary
         4,name
        5,name
                    sandeep, salary
```

Q3. Create a class Product with three variable as discussed in the class and create a list of employees write for loop, foreach, lambda expression, LINQ query whose price is >=500

Code:

using System;

```
using System.Collections.Generic;
using System.Ling;
using System.Text;
using System.Threading.Tasks;
namespace DAY_8_product_class
  class Product
    public int id;
    public string name;
    public int price;
    public string brand;
  internal class Program
    static void Main(string[] args)
       List<Product> product = new List<Product>
          new Product() {id = 1, name = "Sanitizer" ,price = 100, brand = "hygenix" },
          new Product() {id = 2, name = "shoes" ,price = 500, brand = "puma" },
          new Product() {id = 3, name = "shirts", price = 1000, brand = "levis" },
          new Product() {id = 4, name = "watch" ,price = 1200, brand = "fastrack" },
         new Product() {id = 5, name = "Bottle",price = 500,brand = "Milton" },
      };
       // for loop;
       for (int i = 0; i < product.Count; i++)</pre>
         if (product[i].price >= 500)
            Console.WriteLine($"id ={product[i].id},name ={product[i].name}, price ={product[i].price}, brand =
{product[i].brand}");
       //for each
       foreach (var p in product)
         if (p.price >= 500)
            Console.WriteLine($"id = {p.id}, name = {p.name}, price ={p.price}, brand ={p.brand}");
       //for Lambda expression
       product.ToList().Where(p => p.price >= 500).ToList().ForEach(p => Console.WriteLine($"id =
{p.id},name={p.name},price = {p.price},brand ={p.brand}"));
       //LINQ queryp
       var result = from p in product
               where p.price >=500
               select p;
       result.ToList().ForEach(p => Console.WriteLine($"id = { p.id},name ={ p.name},price= { p.price},brand =
{p.brand}"));
```

```
Console.ReadLine();

}

}

Output:

DANBTRAININGS\DAY8 MORNING ASSIGNMENTS\DAY 8 product class\DAY 8 produ
```

Q4 . Create a class department with three variable as discussed in the class and create a list of employees write for loop, foreach, lambda expression, LINQ query whose emp count is >=50

```
Code:
```

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

namespace DAY_8_Department_class
{
    class Department
    {
        public int id;
        public string name;
        public int empcount;
    }

    internal class Program
    {
        static void Main(string[] args)
        {
            List<Department> department = new List<Department>
```

```
new Department() {id = 100, name = "Department1" ,empcount = 100},
         new Department() {id = 101, name = "Department2",empcount = 40},
         new Department () {id = 102, name = "Department3", empcount = 30},
         new Department () {id = 103, name = " Department4",empcount =60},
         new Department () {id = 104,name = "Department5", empcount = 70},
       };
      // for loop;
      for (int i = 0; i < department.Count; i++)</pre>
         if (department[i].empcount >= 50)
            Console.WriteLine($"id ={department[i].id},name ={department[i].name}, empcount
={department[i].empcount}");
       //for each
       foreach (var d in department)
         if (d.empcount >= 50)
            Console.WriteLine($"id = {d.id}, name = {d.name}, empcount ={d.empcount}");
       //for Lambda expression
       department.ToList().Where(d => d.empcount >= 50).ToList().ForEach(d => Console.WriteLine($"id =
{d.id},name={d.name},salary = {d.empcount}"));
       //LINQ query
       var result = from d in department
              where d.empcount >= 50
               select d;
       result.ToList().ForEach(d => Console.WriteLine($"id = { d.id},namonsole.e ={ d.name},empcount = {
d.empcount}"));
       Console.ReadLine();
Output:
```

```
D:\NBTRAININGS\DAY8 MORNING ASSIGNMENTS\DAY 8 Department class\DAY 8
```

Q.5 Create a class customer with three variable as discussed in the class and create a list of employees write for loop, foreach, lambda expression, LINQ query whose age is >=30

Code:

```
using System;
using System.Collections.Generic;
using System.Ling;
using System.Text;
using System.Threading.Tasks;
namespace DAY8_customer_class
  class Customer
    public int id;
    public string name;
    public int age;
  internal class Program
    static void Main(string[] args)
    List<Customer> customer = new List<Customer>
         new Customer() {id = 111, name = "Manohar", age = 50},
         new Customer() {id = 222, name = "Rajesh", age = 30},
         new Customer() {id = 333, name = "Madhav", age = 25},
         new Customer() {id = 444, name = "Kalyan", age = 20},
         new Customer() {id = 555, name = "Ramu", age = 60},
       // for loop;
       for (int i = 0; i < customer.Count; i++)
        {
```

```
if (customer[i].age >= 30)
                Console.WriteLine($"id ={customer[i].id},name ={customer[i].name}, age ={customer[i].age}");
         }
         //for each
          foreach (var c in customer)
            if (c.age >= 30)
                Console.WriteLine($"id = {c.id}, name = {c.name}, age ={c.age}");
         //for Lambda expression
         customer.ToList().Where(c => c.age >= 50).ToList().ForEach(c => Console.WriteLine($"id =
\{c.id\}, name = \{c.name\}, age = \{c.age\}"));
         //LINQ query
         var result = from c in customer
                    where c.age >= 30
                    select c;
         result.ToList().ForEach(c => Console.WriteLine($"id = { c.id},namonsole.e ={ c.name},age = { c.age}"));
         Console.ReadLine();
Output:
      D:\NBTRAININGS\DAY8 MORNING ASSIGNMENTS\DAY8 customer class\DAY8 customer class\bin...
      =111,name =Manohar, age =50
=222,name =Rajesh, age =30
=555,name =Ramu, age =60
= 111, name = Manohar, age =50
= 222, name = Rajesh, age =30
= 555, name = Ramu, age =60
= 111,name=Manohar,age = 50
= 555,name=Ramu,age = 60
= 111,namonsole,e =Manohar,age
                                                                                                                                                 111, namonsole.e = Manohar, age = 50
222, namonsole.e = Rajesh, age = 30
555, namonsole.e = Ramu, age = 60
```