# DAY 8 MORNING ASSIGNMENT(02-02-2022)

BY SARATH KASIMSETTY

Declare and initialize a list with 8 values .write for loop, foreach loop, lambda, linQ query to print even numbers

#### CODE:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
//sarath kasimsetty
//Declare and initialize a list with 8 values.write for loop, foreach loop, lambda, ling
query
// to print even numbers
namespace Day8MorningProject1
    internal class Program
        static void Main(string[] args)
           List<int> data= new List<int>() { 12, 45, 88, 77, 66, 75, 56, 11};
            //for loop
            Console.WriteLine("*******For loop*******");
            for (int i = 0; i < data.Count; i++)</pre>
                if (data[i] % 2 == 0)
                    Console.WriteLine(data[i]);
            //foreach loop
           Console.WriteLine("******Foreach loop*******");
            foreach(var d in data)
                if (d % 2 == 0)
                    Console.WriteLine(d);
            }
            //Lambda expression
            Console.WriteLine("*******Lambda Expression*****");
            data.ToList().Where(d => d % 2 ==
0).ToList().ForEach(d=>Console.WriteLine(d));
            //LinQ query
            Console.WriteLine("********LinQ query********");
            var result = from d in data
                         where d % 2 == 0
```

```
select d;
result.ToList().ForEach(d=>Console.WriteLine(d));

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

```
<sup>-</sup>**********For loop*******
12
88
66
56
*********Foreach loop******
12
88
66
56
********Lambda Expression*****
12
88
66
56
*********LinQ query*******
12
88
66
56
```

2) Create a class Employee with three variables as discussed in the class and create a list of Employees and public int id; public string name; public int salary;

#### CODE:

```
using System;
using System.Collections.Generic;
using System.Ling;
using System.Text;
using System.Threading.Tasks;
//sarath kasimsetty
//Create a class Employee with three variables as discussed in the class and create a list
of Employees
//public int id;public string name;public int salary;
namespace Day8MorningProject2
    internal class Employee
         public int Id;
        public string Name;
        public int salary;
    internal class Program
         static void Main(string[] args)
             List<Employee> employees= new List<Employee>()
                 new Employee(){Id = 121 , Name = "sarath" , salary = 6000},
new Employee(){Id = 122 , Name = "suresh" , salary = 1500},
new Employee(){Id = 123 , Name = "sai" , salary = 4000},
                 new Employee(){Id = 124 , Name = "pushpa" , salary = 7500},
             };
             //for loop
             Console.WriteLine("******for loop*******");
             for (int i =0; i <employees.Count;i++)</pre>
                  if(employees[i].salary>5000)
                 Console.WriteLine(employees[i].Name);
             }
             //foreach loop\
             Console.WriteLine("******foreach loop*******");
             foreach (var d in employees)
                  if(d.salary>5000)
                 Console.WriteLine(d.Name);
             }
             //Lambda expression
             Console.WriteLine("*******lambda expression*******");
             employees.Where(d=>d.salary>5000).ToList().ForEach(d=>
Console.WriteLine(d.Name));
```

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```
*********for loop*******

sarath

pushpa

********foreach loop******

sarath

pushpa

********lambda expression******

sarath

pushpa

*******LinQ query******

sarath

pushpa
```

3) Create a class Product and add variablid, name, price, brand and print product (name and brand) whose price is more than 500 using for, foreach loop, lambda, linQ query.

#### CODE:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System. Threading. Tasks;
namespace Day8MorningProject3
    internal class Product
        public int Id;
        public string Name;
        public int Price;
        public string Brand;
    internal class Program
        static void Main(string[] args)
            List<Product> products = new List<Product>()
                new Product(){Id = 41, Name= "iphone", Price=700, Brand="apple" },
                new Product(){Id = 42,Name= " s20", Price = 600,Brand="samsang"},
                new Product(){Id = 43, Name="v10", Price=500 , Brand="vivo"},
                new Product(){Id = 44,Name="oneplus8", Price=400,Brand="oneplus"}
            };
            //for loop
            Console.WriteLine("******for loop*******");
            for (int i = 0; i < products.Count; i++)</pre>
                if (products[i].Price > 500)
                    Console.WriteLine("Name : {0} , Brand : {1}", products[i].Name,
products[i].Brand);
            //foreach loop
            Console.WriteLine("******foreach loop*******");
            foreach(var d in products)
                if (d.Price>500)
                    Console.WriteLine("Name : {0} , Brand : {1}", d.Name, d.Brand);
            }
            //Lambda expression
            Console.WriteLine("*******Lambda expression*******");
            products.Where(p => p.Price > 500).ToList().ForEach(p =>
Console.WriteLine("Name : {0} , Brand : {1}", p.Name, p.Brand));
```

4) Create a Department class and add variable of id,name,empcount Write code to print id,name of departments whose empcount is greater than 50 using for, foreach, lambda, ling query.

### **CODE**

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
//sarath kasimsetty
//Create a Department class and add variable of id, name, empcount
//Write code to print id, name of departments whose empcount is greater than 50
using
//for,foreach,lambda,ling query
namespace Day8MorningProject4
    internal class Department
        public int Id;
        public string Name;
        public int Empcount;
    internal class Program
        static void Main(string[] args)
            Department[] departments = new Department[]
             new Department(){Id = 1125 , Name= "cse", Empcount=120 },
             new Department(){Id = 1126,Name = "mech" , Empcount=80 },
new Department(){Id = 1127,Name = "EEE" , Empcount= 50 },
             new Department(){Id = 1128,Name = "civil" , Empcount=30 }
            };
            //for loop
            Console.WriteLine("*********for loop********");
            for(int i=0;i<departments.Length;i++)</pre>
                if(departments[i].Empcount > 50)
                    Console.WriteLine("DepID = {0} , DepName =
{1}",departments[i].Id,departments[i].Name);
            //foreach loop
            Console.WriteLine("*********foreach loop********");
            foreach (var d in departments)
                if (d.Empcount > 50)
                Console.WriteLine("DepID = {0} , DepName = {1}", d.Id, d.Name);
            //Lambda expression
            Console.WriteLine("********Lambda expression***********);
            departments.Where(d => d.Empcount > 50).ToList().ForEach(d =>
Console.WriteLine("DepID = {0} , DepName = {1}", d.Id, d.Name));
```