## 2<sup>nd</sup> Feb Assignments

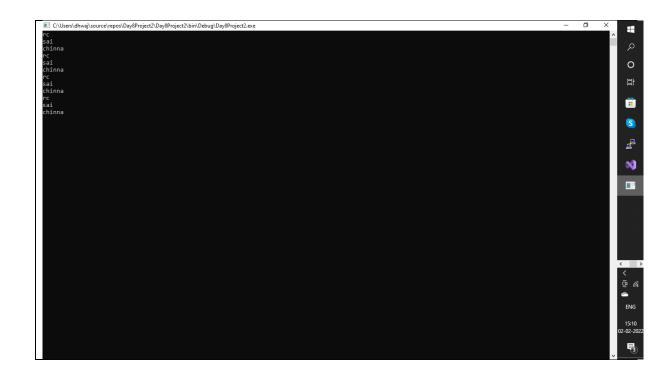
## By Ram charan

```
1.Declare and initialise a list with 8 variables. Write for , foreach , Lambda expression, LINQ To print even numbers.
```

```
Code:
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System. Threading. Tasks;
namespace Day8Project1
    //Author:Rc
    /*Purpose:Declare and initialisation a list with 8 values,
     * write for ,foreach, lambda ,linq query
     * to print even numbers.
     * *****/
    internal class Program
        static void Main(string[] args)
            //Declaring and initialising List<integer type>
            List<int> data = new List<int> { 8, 9, 7, 6, 20, 77, 65, 44 };
            //for loop
            for(int i=0;i<data.Count;i++)</pre>
                if (data[i] % 2 == 0)
                    Console.WriteLine(data[i]);
            }
            // foreach loop
            foreach(var d in data)
                if (d % 2 == 0)
                    Console.WriteLine(d);
            //Lambda Expression
            data.Where(d => d % 2 == 0).ToList().ForEach(d =>
Console.WriteLine(d));
            //LINQ
```

```
2. Create Employee class with 3 variables and
Create a List and write code
Using for, foreach, Lambda expression, LINQ
Code:
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
namespace Day8Project2
    //Author: Rc
    /**Create Employee Class with 3 variables
     * create List of employees,
* and write code using for,foreach,lambda expression,LINQ
     * *****/
    class Employee //class declaration
         //variables declaration
        public int id;
        public string name;
```

```
public int salary;
    internal class Program
        static void Main(string[] args)
            //List<Employees> creation
            List<Employee> emp=new List<Employee>
               //initialising object with values
            new Employee() { id = 501, name = "rc", salary = 5400},
            new Employee() { id = 502, name = "eswar", salary = 3000},
            new Employee() { id = 503, name = "sai", salary = 6500},
            new Employee() { id = 504, name = "pavan", salary = 5000},
            new Employee() { id = 505, name = "chinna", salary = 7000}
            };
            //for loop
            for (int i = 0; i < emp.Count; i++)</pre>
                if(emp[i].salary>5000)
                Console.WriteLine(emp[i].name);
            //foreach loop
            foreach (var e in emp)
                if(e.salary>5000)
                Console.WriteLine(e.name);
            //lambda expression
emp.Where(e=>e.salary>5000).ToList().ForEach(e=>Console.WriteLine(e.name));
            //LINQ
            var result = from e in emp
                         where e.salary > 5000
                         select e.name;
            result.ToList().ForEach(e => Console.WriteLine(e));
            Console.ReadLine();
        }
    }
Output:
```



### 3. Create a Product class and add variables id, name, brand Print product name and brand whose price>1000 Using for, foreach, Lambda Expression, LINQ

#### Code:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
namespace Day8Project3
    using System;
    using System.Collections.Generic;
    using System.Linq;
    using System.Text;
    using System.Threading.Tasks;
    namespace Day7Project7
        //Author: Rc
        /**Create Products Class and add variables id, name, price, brand
         * and write code to print name and brand whose price >1000
         * using for, foreach, lambda expression, LINQ
         * *****/
        class Products //class declaration
```

```
//variables declaration
            public int id;
            public string name;
            public int price;
            public string brand;
        }
        internal class Program
            static void Main(string[] args)
                //object creation
                List<Products> p = new List<Products> //array object
                    //initialising object with values
                    new Products() { id = 1, name = "Shirt", brand=
"USPA", price=2500},
                    new Products() { id = 2, name =
"Shoes", brand="UCB", price=3000},
                    new Products() { id = 3, name =
"Shorts", brand="Jockey", price=400},
                    new Products() { id = 4, name =
"Watch", brand="WROGN", price=1500},
                    new Products() { id = 5, name =
"Dairymilk", brand="Cadbury", price=5}
                };
                //for loop
                for (int i = 0; i < p.Count; i++)</pre>
                    if (p[i].price > 1000)
                         Console.WriteLine("\{0\} = \{1\} ", p[i].name, p[i].brand);
                //foreach loop
                foreach (var e in p)
                    if (e.price > 1000)
                        Console.WriteLine("{0} = {1} ",e.name,e.brand);
                //lambda expression
                p.ToList().Where(e => e.price > 1000).ToList().ForEach(e =>
Console.WriteLine("{0} = {1} ", e.name, e.brand));
                //LINQ
                var result=from e in p
                            where e.price>1000
                            select e.name + "," + e.brand;
                result.ToList().ForEach(d => Console.WriteLine(d));
                Console.ReadLine();
            }
        }
    }
}
```

Output:

```
### C:USern/dhmay/cource/reportDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDay/BrojectDa
```

4.Create a Department Class and add variables id,name,empcount Write code to print id ,name of departmets whose empcount >50 Using for,foreach, Lambda Expression, LINQ

```
Code:
using System;
using System.Collections.Generic;
using System.Ling;
using System.Text;
using System. Threading. Tasks;
namespace Day8Project4
    //Author: Rc
    /**Create Department Class and add variables id, name, empcount
    * and write code to print id and name whose emp >50
    * using for, foreach, lambda expression, LINQ
     * ****/
    class Department //class declaration
        //variables declaration
        public int id;
        public string name;
        public int empcount;
    internal class Program
        static void Main(string[] args)
            //List creation
            List<Department> data = new List<Department>
                {
                    //initialising values
                    new Department() { id = 1, name="Developer",empcount=80},
                    new Department() { id = 2, name =
"Automation", empcount=60},
```

```
new Department() { id = 3, name = "Production"
Support", empcount=40},
                      new Department() { id = 4, name = "Security",empcount=50},
new Department() { id = 5, name = "Quality
Analyst",empcount=70}
             };
//for loop
             for (int i = 0; i < data.Count; i++)</pre>
                  if (data[i].empcount > 50)
                      Console.WriteLine("{0} - {1} ", data[i].id, data[i].name);
             //foreach loop
             foreach (var d in data)
                  if (d.empcount > 50)
                      Console.WriteLine("{0} = {1} ", d.id, d.name);
             }
             //lambda expression
             data.ToList().Where(e => e.empcount > 50).ToList().ForEach(e =>
Console.WriteLine("\{0\} -> \{1\} ", e.id, e.name));
             //LINQ
             var result = from e in data
                            where e.empcount > 50
                            select e.id + "," + e.name;
             result.ToList().ForEach(d => Console.WriteLine(d));
             Console.ReadLine();
         }
    }
}
Output:
   Developer
 - Automation
 - Quality Analyst
1 = Developer
2 = Automation
5 = Quality Analyst
1 -> Developer
2 -> Automation
 -> Quality Analyst
1,Developer
2,Automation
5,Quality Analyst
```

### 5.Create your own class and variables and initialise with some values Using for, foreach , Lambda Expression ,LINQ

```
Code:
```

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System. Threading. Tasks;
namespace Day8Project5
    //Author: Rc
    /**Create own Class and add variables
     * and write code to print name whose mutuals==1
     * using for, foreach, lambda expression, LINQ
     * ****/
    class Friends //class declaration
        //variables declaration
        public string name;
        public int age;
        public int mutuals;
    internal class Program
        static void Main(string[] args)
            //List creation
            List<Friends> data = new List<Friends>
                {
                    //initialising values
                    new Friends() { age= 22, name="RC", mutuals=1},
                    new Friends() { age= 24, name = "Siva", mutuals=1},
                    new Friends() { age= 23, name = "Chandu", mutuals=4},
                    new Friends() { age= 24, name = "Satya", mutuals=5},
                    new Friends() { age= 23, name = "Ramya", mutuals=7}
                };
            //for loop
            for (int i = 0; i < data.Count; i++)</pre>
                if (data[i].mutuals==1)
                    Console.WriteLine( data[i].name);
            //foreach loop
            foreach (var d in data)
                if (d.mutuals==1)
                    Console.WriteLine(d.name);
            }
            //lambda expression
            data.ToList().Where(e => e.mutuals==1).ToList().ForEach(e =>
Console.WriteLine(e.name));
            //LINQ
            var result = from e in data
                         where e.mutuals==1
                         select e.name;
```

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

Console.ReadLine();
}

Output:

Cuteridaming locard imposition by if Project Day if Proj
```

# End of DAY 8 ASSIGNMENTS