|  |
| --- |
| **DAY 8 ASSIGNMENT**  **By**  **ARUN KUMAR YADLAPALLI**  **@**  **NB Healthcare Technologies PVT LTD.** |

|  |
| --- |
| **Q1)** Declare and initialize a list with values, write for, foreach, lamda and Linq to print even numbers. |
| **Code:**  namespace Day8\_Project1  {  //Author: Arun  //Program: Printing even numbers.  class Program  {  static void Main(string[] args)  {  List<int> data = new List<int>() { 34, 75, 65, 27, 88, 90 };    //for loop  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.Where(d => d % 2 == 0).ToList().ForEach(d => Console.WriteLine(d));    //LINQ Query  var result = from d in data  where d % 2 == 0  select d;  result.ToList().ForEach(d => Console.WriteLine(d));    Console.ReadLine();  }  }  } |
| **Output:** |

|  |
| --- |
| **Q2)** Create a class employee with three variables and create a list of employees and write for,foreach,lamda and Linq. |
| **Code:**  namespace Day8\_Project2  {  class Employee  {  public int id;  public string name;  public int salary;  }  class Program  {  static void Main(string[] args)  {  List<Employee> employees = new List<Employee>()  {  new Employee(){id=1,name="arun",salary=6000},  new Employee(){id=2,name="rey",salary=4000},  new Employee(){id=3,name="sai",salary=5500},  new Employee(){id=4,name="cat",salary=4500},  new Employee(){id=5,name="rat",salary=6500}  };    //for loop  for (int i=0;i<employees.Count;i++)  {  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}");  }    //Lamda expression    employees.ForEach(e => Console.WriteLine($"id={e.id},name={e.name},salary={e.salary}"));  //LINQ Query    var result = from e in employees  select e;  result.ToList().ForEach(e => Console.WriteLine($"id={e.id},name={e.name},salary={e.salary}"));  Console.ReadLine();  }  }  } |
| **Output:** |

|  |
| --- |
| **Q3)** Create a class product and add variables . Also print them using for, foreach,lamda and linq |
| **Code:**  namespace Day8\_project4  {  class Product  {  public int id;  public string name;  public int price;  public string brand;    }  class Program  {  static void Main(string[] args)  {  List<Product> pro = new List<Product>()  {  new Product(){id=11,name="wallet",price=100,brand="Levis"},  new Product(){id=12,name="shoes",price=350,brand="bata"},  new Product(){id=13,name="shirt",price=450,brand="roadster"},  new Product(){id=14,name="geyser",price=3000,brand="AO Smith"},    };      //for loop  for (int i=0;i<pro.Count;i++)  {  if(pro[i].price>500)  Console.WriteLine($"name={pro[i].name},brand={pro[i].brand}");  }    //foreach loop  foreach(var p in pro)  {  if (p.price>500)  Console.WriteLine($"name={p.name},brand={p.brand}");  }    //Lamda Expression  pro.ToList().Where(p => p.price > 500).ToList().ForEach(p => Console.WriteLine($"name={p.name},brand={p.brand}"));  //LINQ Query  var result = from p in pro  where p.price > 500  select p;  result.ToList().ForEach(p => Console.WriteLine($"name={p.name},brand={p.brand}"));      Console.ReadLine();    }  }  } |
| **Output:** |

|  |
| --- |
| **Q4)** Create your own class and variables and initialize with some values .Also print using for, foreach ,lamda and linq. |
| **Code:**  namespace Day8\_Project3  {  //Author: Arun  //Program: Own class with own variables and calling for,foreach,Lamda,LINQ  class Office  {  public string name;  public string location;  public string type;  }  class Program  {  static void Main(string[] args)  {  List<Office> off = new List<Office>()  {  new Office(){name="nbhealthcare",location="Madhapur",type="IT"},  new Office(){name="eenadu",location="Irrummanzil",type="Paper"},  new Office(){name="byjus",location="jubliee hills",type="education"},  new Office(){name="sutherland",location="Lanco hills",type="IT"},  new Office(){name="accenture",location="Mindspace",type="IT"},  };      //for loop  for(int i=0;i<off.Count;i++)  {  Console.WriteLine($"name={off[i].name},location={off[i].location},type={off[i].type}");  }    //foreach loop  foreach(var o in off)  {  Console.WriteLine($"name={o.name},location={o.location},type={o.type}");  }    //Lamda Expression    off.ToList().ForEach(o => Console.WriteLine($"name={o.name},location={o.location},type={o.type}"));    //LINQ Query  var result = from o in off  select o;  result.ToList().ForEach(o => Console.WriteLine($"name={o.name},location={o.location},type={o.type}"));    Console.ReadLine();        }  }  } |
| **Output :** |