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| Day 8  Durga Prasad B  **NB Healthcare Technologies PVT LTD.** |

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| Program 1: To print Even Number (for, foreach, Lambda, LINQ Query) |
| **Code:**  namespace Day8\_Program1\_for\_foreach\_Lambda  {  internal class Program  {  static void Main(string[] args)  {  List<int> data = new List<int> { 26, 55, 47,28,88,257,388,750};  // EvenNumber using for loop  for (int i = 0; i < data.Count; i++)  {  if(data[i]%2==0)  Console.WriteLine(data[i]);  }  // EvenNumber using foreach loop  foreach(int 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 Query  var result = from d in data  where d % 2 == 0  select d;  result.ToList().ForEach(d => Console.WriteLine(d));    Console.ReadLine();  }  }  } |
| **Output:** |

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| Program 2: Employee Details (for, foreach, Lambda, LINQ Query) |
| **Code:**  namespace Day8\_program\_\_Employees\_Details  {  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 = 101, Name = "Sai", Salary = 75000},  new Employee(){ Id = 102, Name = "Nani", Salary = 86000 },  new Employee(){ Id = 103, Name = "Koti", Salary = 55000 },  new Employee(){ Id = 104, Name = "Mahi", Salary = 95000 }  };  // for loop  for(int i = 0; i < employees.Count; i++)  {  Console.WriteLine($"id={employees[i].Id},Name={employees[i].Name},Salary={employees[i].Salary}");  }  //foreach loop  foreach (var o in employees)  {  Console.WriteLine($"id={o.Id},Name={o.Name},Salary={o.Salary}");  }  //Lambda Expression  employees.ForEach(o => Console.WriteLine($"id={o.Id},Name={o.Name},Salary={o.Salary}"));  //LINQ Query  var result = from o in employees  select o;  result.ToList().ForEach(o => Console.WriteLine($"id={o.Id},Name={o.Name},Salary={o.Salary}"));  Console.ReadLine();  }  }  } |
| **Output:** |

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| Program 3: |
| **Code:**  namespace Day8\_Program4\_id\_\_name\_\_price\_\_brand\_  {  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 = 1011, Name = "Sandils", price = 450, Brand="Bata"},  new Product(){ Id = 1012, Name = "Ricecoocker", price = 1300, Brand="Prastage"},  new Product(){ Id = 1013, Name = "TV", price = 22000, Brand="MI"},  new Product(){ Id = 1014, Name = "Short", price = 350, Brand="Polo"}  };  // for loop  for (int i = 0; i < product.Count; i++)  {  if(product[i].price>600)  Console.WriteLine($"{product[i].Name},{product[i].Brand}");    }    //foreach loop  foreach (var f in product)  {  if(f.price>600)  Console.WriteLine($"{f.Name}, {f.Brand}");  }  //Lambda Expression  product.Where(f=>f.price>600).ToList().ForEach(f => Console.WriteLine($"{f.Name}, {f.Brand}"));  //LINQ Query  var result = from f in product  where f.price>600  select f;  result.ToList().ForEach(f => Console.WriteLine($"{f.Name}, {f.Brand}"));  Console.ReadLine();    }  }  } |
| **Output:** |