**19. LINQ – Language INtegrated Query. Query Expressions – Заявки вградени в езика. Ламбда изрази**

LINQ – Language INtegrated Query   
( заявки вградени в езика )

* Основни фундаменти на LINQ
* LINQ - използвани езици C# 3.0 VB 9
* Особености
  + Lambda Expressions
  + Query Expressions
    - Delegate functions
    - Type inference
    - Anonymous types
    - Extension methods
    - Expression trees

Инициализация на обекти

Invoice i = new Invoice { CustomerId = 123, Name = “Test” };

***Is equivalent to:***

Invoice I = new Invoice();

i.CustomerId = 123;

i.Name = “Test”;

Lambda Expressions  
Predicates

* + Predicate
    - (p) => p.Gender == “F”
  + Projection
    - (p) => p.Gender ? “F” : “Female”
    - “Each person *p* becomes string “Female” if Gender is “F””