**Write a query that returns only uppercase words from string.**

**Expected input and output**

**"DDD example CQRS Event Sourcing" → DDD, CQRS**

            string word = "THIS is UPPERCASE string LOL";

            var uppercaseOnly = word.Split(' ').Where(x => string.Equals(x, x.ToUpper()));

            foreach (var u in uppercaseOnly)

            {

                Console.Write($"{u}, "); // THIS, UPPERCASE, LOL,

            }

**Given an array of integers, write a query that returns list of numbers greater than 30 and less than 100.**

**Expected input and output**

**[67, 92, 153, 15] → 67, 92**

  List<int> Numbers = new List<int> { 30, 54, 3, 14, 25, 82, 1, 100, 23, 95 };

            var SelectedNumbers = Numbers.Where(x => x > 30).Where(x => x < 100);

            foreach (var s in SelectedNumbers)

            {

                Console.Write($"{s} "); // 54 82 95

            }

**Write a query that returns top 5 numbers from the list of integers in descending order.**

**Expected input and output**

**[78, -9, 0, 23, 54, 21, 7, 86] → 86 78 54 23 21**

List<int> numbers = new List<int> { 6, 0, 999, 11, 443, 6, 1, 24, 54 };

            var top5 = numbers.OrderByDescending(x => x).Take(5);

            foreach (var number in top5)

            {

                Console.Write($"{number} "); // 999 443 54 24 11

            }

**Given a non-empty list of words, sort it alphabetically and return a word that contains letter 'e'.**

**Expected input and output**

**["plane", "ferry", "car", "bike"]→ "plane"**

 var words = new List<string> { "cow", "dog", "elephant", "cat", "rat", "squirrel", "snake", "stork" };

            var word = words.OrderBy(x => x)

                            .LastOrDefault(w => w.Contains("e"));

            Console.WriteLine($"{word}"); // squirrel

**Write a query that returns letters and their frequencies in the string.**

**Expected input and output**

**"gamma" → "Letter g occurs 1 time(s), Letter a occurs 2 time(s), Letter m occurs 2 time(s)"**

string word = "abracadabra";

            var letters = word.GroupBy(x => x);

            foreach (var l in letters)

            {

                Console.Write($"Letter {l.Key} occurs {l.Count()} time(s), ");

                // Letter a occurs 5 time(s), Letter b occurs 2 time(s), Letter r occurs 2 time(s)

                // Letter r occurs 2 time(s), Letter c occurs 1 time(s), Letter d occurs 1 time(s)

            }