Linq Exercise:

Description:

Create a list of Product objects and filter through it using the provided criteria with LINQ. Your goal is to apply filtering, ordering, and projection as described.

Class: Product

String Name
String Category
Decimal Price
Bool IsListed

Object Example:

new Product { Name = "Laptop", Category = "Electronics", Price = 29.99m, IsListed = true }

Filtration Criteria:

Only include products where:
Category is "Electronics"
IsListed is true

Ordering Criteria:

Order the filtered products by Price in descending order

Expected Output:

Product Name:**{Name},** Product Price: **{Price}**

```
public class Product
{
    public string Name { get; set; }
    public string Category { get; set; }
    public decimal Price { get; set; }
    public bool IsListed { get; set; }
}


var products = new List<Product>
{
    new Product { Name = "Laptop", Category = "Electronics", Price = 1200.00m, IsListed = true },
    new Product { Name = "Smartphone", Category = "Electronics", Price = 800.00m, IsListed = true },
    new Product { Name = "TV", Category = "Electronics", Price = 450.00m, IsListed = false },
    new Product { Name = "Table", Category = "Furniture", Price = 200.00m, IsListed = true },
    new Product { Name = "Headphones", Category = "Electronics", Price = 90.00m, IsListed = true },
};


var resultQuery = from product in products
                  where product.Category == "Electronics" && p.IsListed
                  orderby product.Price descending
                  select new
                  {
                             Name = product.Name,
                            Price = product.Price,
                  };



var resultMethod = products
    .Where(p => p.Category == "Electronics" && p.IsListed)
    .OrderByDescending(p => p.Price)
    .Select(x => new
             {
                 Name = x.Name,
                 Price = x.Price,
             });
```