LINQ Assignment

```
class Movies
   {
      public int MovieId { get; set; }
      public string MovieName { get; set; }
      public string Actor { get; set; }
      public string Actress { get; set; }
      public int YOR { get; set; }
}


      List<Movies> li = new List<Movies>()
   {
      new Movies(){ MovieId=100, MovieName="Bahubali", Actor="Prabhas",
Actress="Tamanna", YOR=2015 },
      new Movies(){ MovieId=200, MovieName="Bahubali2", Actor="Prabhas",
Actress="Anushka", YOR=2017 },
      new Movies(){ MovieId=300, MovieName="Robot", Actor="Rajini",
Actress="Aish", YOR=2010 },
      new Movies(){ MovieId=400, MovieName="3 idiots", Actor="Amir",
Actress="kareena", YOR=2009 },
      new Movies(){ MovieId=500, MovieName="Saaho", Actor="Prabhas",
Actress="shraddha", YOR=2019 },
   };
```

1. display list of movienames acted by prabhas

2. display list of all movies released in year 2019

3. display the list of movies who acted together by prabhas and anushka

4. display the list of all actress who acted with prabhas

5. display the list of all moves released from 2010 - 2018

6. sort YOR in descending order and display all its records

7. display max movies acted by each actor

8. display the name of all movies which is 5 characters long

9.display names of actor and actress where movie released in

year 2017, 2009 and 2019

10.display the name of movies which start with 'b' and ends with 'i'

11.display name of actress who not acted with Rajini and print in descending order

12. display records in following format

eg:

movie name	cast
Bahubali	prabhas-tammanna

using lambda expression

Products class

```
class Products
 {
    public int pid { get; set; }
    public string pname { get; set; }
    public int price { get; set; }
    public int qty { get; set; }
 }

List<Products> li = new List<Products>()

        {

          new Products() { pid = 100, pname = "book", price = 1000, qty = 5 },

           new Products() { pid = 200, pname = "cd", price = 2000, qty = 6 },

           new Products() { pid = 300, pname = "toys", price = 3000, qty = 5 },

            new Products() { pid = 400, pname = "mobile", price = 8000, qty = 6 },

           new Products() { pid = 600, pname = "pen", price = 200, qty = 7 },

           new Products() { pid = 700, pname = "tv", price = 30000, qty = 7 },

         };
```

1. find second highest price
2. display top 3 highest price
3. find the sum of price where product names contains letter 'O'
4. find the product name ends with e and display only pid and pname (filter by column name)
5. group all records by qty find max of price

Arrays

List<int> listA = new List<int> { 10, 20, 30, 40, 50, 20, 30 };

List<int> listB = new List<int> { 30, 40, 50, 60, 70, 40 };

List<string> names1 = new List<string> { "Akshay", "Aasritha", "Deepa", "Kiran", "Kiran" };

List<string> names2 = new List<string> { "Kiran", "Manikanta", "Deepa", "Naveen" };

Q1. Write a LINQ query to fetch unique values from listA.

Expected Output: 10, 20, 30, 40, 50

Q2. Combine values from listA and listB without duplicates.

Q3. Find items common in listA and listB.

Q4. Find names present in names1 but not in names2.

Q5. Find sum of price of all products.

Q6. Find count of products where price > 5000.

Q7. Find the highest value in listA.

Q8. Write a LINQ query to find numbers divisible by 3

int [] numbers = { 1, 4, 9, 16, 25, 36 };

Q9. Write a Linq to query to sort based on string Length

string[] st = { "India", "Srilanka", "canada", "Singapore" };