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Date:04/08/25
Name: Nancy M
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```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System. Threading. Tasks;
using System. Diagnostics;
namespace Sample
  class Program
  {
    static int sum_amount(List<sales_report> salesreport)
       int sum = 0;
       foreach (var report in salesreport)
         sum = sum + report.cos_purchase;
       return sum;
    }
    static Tuple<int, int> GetMaxMinPurchase(List<sales_report> reportList)
       int max = reportList.Max(s => s.cos_purchase);
       int min = reportList.Min(s => s.cos_purchase);
       return Tuple.Create(max, min);
    }
    public enum shop_name
       max,
       unlimited,
       trends,
```

```
struct sales_report
       public string cos name;
       public string cos place;
       public int cos purchase;
       public string cos_brand;
       public sales_report(string _cos_name, string _cos_place, int _cos_purchase, string
_cos_brand)
         cos_name = _cos_name;
         cos_place = _cos_place;
         cos_purchase = _cos_purchase;
         cos_brand = _cos_brand;
       }
    }
     static void Main(string[] args)
       sales report s1 = new sales report("nancy", "cbe", 2000, "max");
       sales_report s2 = new sales_report("jency", "ooty", 3000, "unlimited");
       sales_report s3 = new sales_report("maria", "chennai", 4000, "trends");
       List<sales report> salesreport = new List<sales report>();
       salesreport.Add(s1);
       salesreport.Add(s2);
       salesreport.Add(s3);
       foreach (sales_report report in salesreport)
         Debug.WriteLine(string.Format("{0}, {1}, {2}, {3}", report.cos_name, report.cos_place,
report.cos purchase, report.cos brand));
       }
       Debug.WriteLine(string.Format("Total Purchase Amount: {0}",
sum amount(salesreport)));
       Func<List<sales report>, int> totcos =
         (List<sales_report> reportList) => reportList.Count;
       Debug.WriteLine(string.Format("Total count is: {0}", totcos(salesreport)));
       Func<List<sales report>, IOrderedEnumerable<sales report>> ascorder =
         reportList => reportList.OrderBy(d => d.cos purchase);
```

```
Debug.WriteLine("Ascending order:");
       foreach (sales_report asc in ascorder(salesreport))
       {
         Debug.WriteLine(asc.cos_purchase);
       }
       Func<List<sales report>, IOrderedEnumerable<sales report>> dscorder =
         reportList => reportList.OrderByDescending(d => d.cos purchase);
       Debug.WriteLine("Descending order:");
       foreach (sales report dsc in dscorder(salesreport))
         Debug.WriteLine(dsc.cos_purchase);
       }
       var maximumvalue = salesreport.Max(a => a.cos purchase);
       Debug.WriteLine("Maximum value: " + maximumvalue);
       var minimumvalue = salesreport.Min(b => b.cos purchase);
       Debug.WriteLine("Minimum value: " + minimumvalue);
       var sumvalue = salesreport.Sum(c => c.cos purchase);
       Debug.WriteLine("Sum using anonymous function: " + sumvalue);
       var myTuple = Tuple.Create("Nirmal", 409);
       Debug.WriteLine(myTuple.Item1);
       var result = GetMaxMinPurchase(salesreport);
       Debug.WriteLine(string.Format("Tuple function - Min: {0} and Max: {1}", result.Item2,
result.ltem1));
    }
  }
Output:
nancy, cbe, 2000, max
jency, ooty, 3000, unlimited
maria, chennai, 4000, trends
Total Purchase Amount: 9000
Total count is: 3
```

Ascending order:

2000

3000

4000

Descending order:

4000 3000 2000

Maximum value: 4000 Minimum value: 2000

Sum using anonymous function: 9000

Nirmal

Tuple function - Min: 2000 and Max: 4000