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**Data Structure & Algorithm**

Activity 10.2  
Sets Operations

Consider the snippet code below. Complete the program by adding the four common operations in set and display the resulting list and number of returned items for each operation.

string[] names1 = new string[] {

"mahesh","sabnis","manish","sharma","saket","karnik"};

string[] Names2 = new string[] {

"suprotim","agarwal","vikram","pendse","mahesh","mitkari" };

HashSet<string> hSetN1 = new HashSet<string>(names1);

Console.WriteLine("Data in First HashSet");

foreach (var n in hSetN1)

{

Console.WriteLine(n);

}

Console.WriteLine("\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_");

HashSet<string> hSetN2 = new HashSet<string>(Names2);

Console.WriteLine("Data in Second HashSet");

foreach (var n in hSetN2)

{

Console.WriteLine(n);

}

Console.WriteLine("\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_");

1. Display the items after the union, intersection, difference and symmetric difference of the two sets.
2. Count then show the number of items each operation.