**Level 2 (Simple Programs)**

**Coding Program (EvenNumberEvaluator)**

* Create a program that checks if a given number is even or odd.
  + Given the number 2, the program should print out ”This number is Even”
  + Given the number 3, the program should print out “ This number is Odd”

**Coding Program (Binary Triangle)**

* Create a program that prints a binary triangle
* Enter the Number of Rows : 5

1

01

010

1010

10101

**Coding Program (Palindrome)**

* Write a program that tells if a given string is a Palindrome or not
  + Given a string dad, The program should print out “Palindrome”
  + Given a string father, The program should print out “Not a Palindrom
  + e”

**Coding Program (Sort)**

* Write a program in C# Sharp to sort elements of array in ascending order

Test Data :  
Input the size of array : 5  
Input 5 elements in the array :  
element - 0 : 2  
element - 1 : 7  
element - 2 : 4  
element - 3 : 5  
element - 4 : 9  
Expected Output :  
Elements of array in sorted ascending order:  
2 4 5 7 9

**Coding Program (Swap)**

* Write a program that takes a given string and reverse it
  + Given Hello, output = olleh
  + Given world, Output = dlrow

**Coding Program (Factorial)**

* Write a factorial program that prints the factorial of a given number
  + Input 6
  + Output: The Factorial of 6 is 720

**Coding Program (Statistics)**

* Write a program that takes 4 numbers as input and calculate/prints the sum, the average, smallest and the biggest number
  + Input 2,3,4,5
  + Output sum = 14, avg = 3,5, smallest = 2, highest = 5

**Coding Program (Occurrence)**

* Count the occurrence of each character in a string
  + Input: Hello World
  + Output:
    - h – 1
    - e – 1
    - l – 3
    - o – 2
    - w – 1
    - r – 1
    - d – 1

**Coding Program (DuplicateCharacters)**

* Write a program that takes a string and removes all the duplicate characters in that string
  + Input: Tshepiso Marape
  + Output: TshepioMar

**Coding Program (FibonacciSeries)**

* Print out a Fibonacci series
  + Output: Enter the number of elements: 15

1. 1 1 2 3 5 8 13 21 34 55 89 144 233 377 , 610, 987

**Coding Program (Read Files)**

Write a program that reads a text file and displays the number of words and displays the longest and shortest word in the file.