**Project Writeup**

**Project Name: Java Code to Find Longest Increasing Subsequence From a List**

**Steps:**

* Static variable max\_ref is declared at class level, Instantiate the main class and an array of type int is created and instantiated.
* The length of the declared array is stored in an int variable.
* Static method int lis is called and the array and the length of it is passed and the variable max\_ref is instantiated to 1
* The call to another static method \_lis is done and the array elements and the length of it is passed to as parameters
* An if statement is used to check the value of n and returns 1 if it is equal to 1
* Local variables res and max\_ending \_here of type int is instantiated to 1
* A for loop is declared with int i and variable res is assigned to the current element position in the array list
* An if statement is used if the element being passed is less than the total number of elements in the array
* If True the value of max\_ending\_here is incremented with the value of res
* The value of max\_ending\_here is assigned to max\_ref and returns the value of max\_ending\_here.
* The value of max\_ref is returned in the lis method
* The value of max\_ending\_here is printed in the main method