**Algorithms**

**Laboratory Task-1**

**Submission Deadline** – As announced in the class

**Submission Guidelines**-

* Rename the file to your id only. If your id is 18-XXXXX-1, then the file name must be 18-XXXXX-1.docx.
* Must submit within the given deadline in VUES to the section named Lab Tak-1
* Must include resources for all the section named ‘Code’ and ‘Output (screenshot)’ in the table.

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| Question-1 – **Implement Linear Search** |
| **Pseudocode**  procedure linear\_search (list, value)  for each item in the list  if match item == value  return the item's location  end if  end for  end procedure |
| **Code** |
| **Output (Screenshot)** |

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| Question-2 – **Implement Bubblesort** |
| **Pseudocode**  begin BubbleSort(list)  for all elements of list  if list[i] > list[i+1]  swap(list[i], list[i+1])  end if  end for  return list  end BubbleSort |
| **Code** |
| **Output (Screenshot)** |

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| Question-3 – **Implement Selectionsort** |
| **Pseudocode**  SELECTION-SORT(A)  for j ← 1 to n-1  smallest ← j  for i ← j + 1 to n  if A[ i ] < A[ smallest ]  smallest ← i  Exchange A[ j ] ↔ A[ smallest ] |
| **Code** |
| **Output (Screenshot)** |