**Algorithms**

**Laboratory Task-5**

**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 Fibonacci series in the normal way** |
| **Pseudocode**  int fib (int n) {  if (n < 2)  return 1;  return fib(n-1) + fib(n-2);  } |
| **Code** |
| **Output (Screenshot)** |

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| Question-2 – **Implement Fibonacci series using dynamic programming** |
| **Pseudocode**  void fib () {  fibresult[0] = 1;  fibresult[1] = 1;  for (int i = 2; i<n; i++)  fibresult[i] = fibresult[i-1] + fibresult[i-2];  } |
| **Code** |
| **Output (Screenshot)** |