CS222 - Algorithm Design

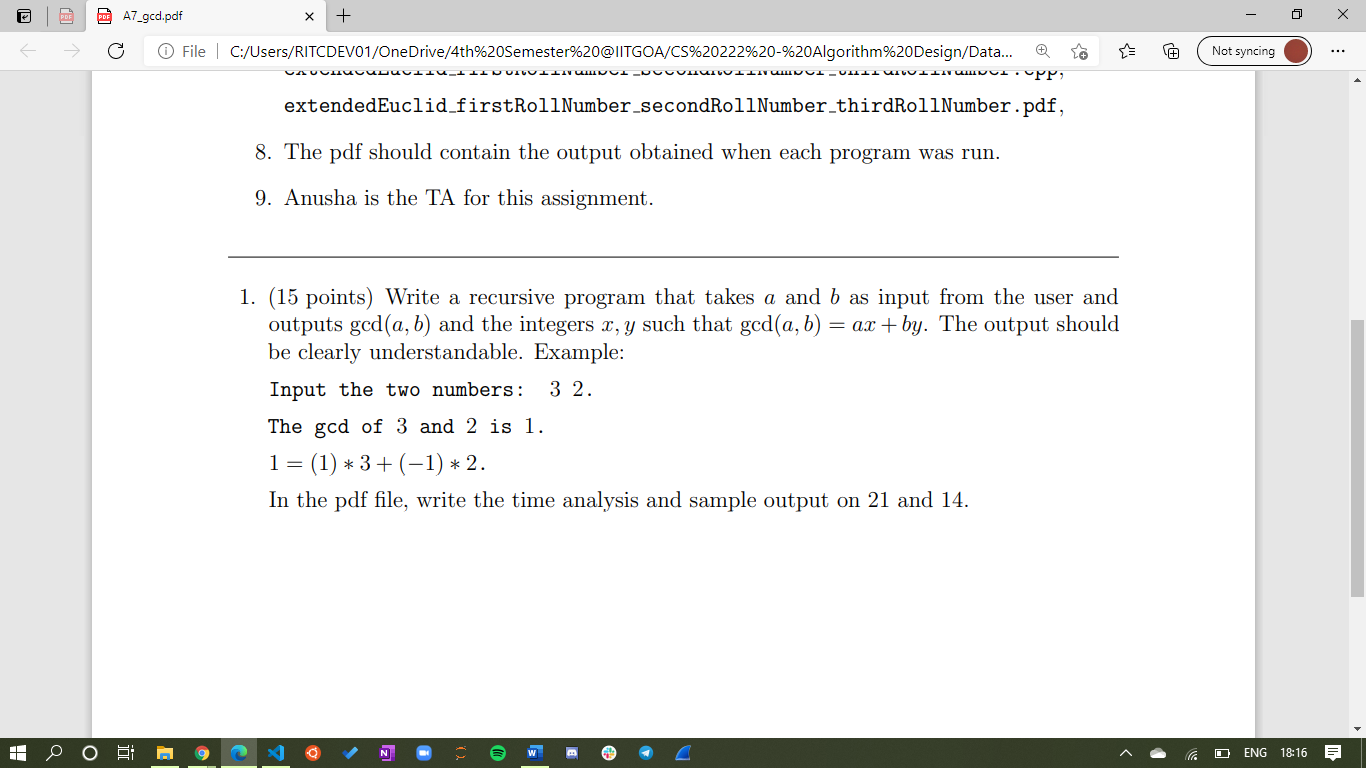
Dr. Arpita Korwar

# *Assignment 7 - Extended Euclid’s algorithm*

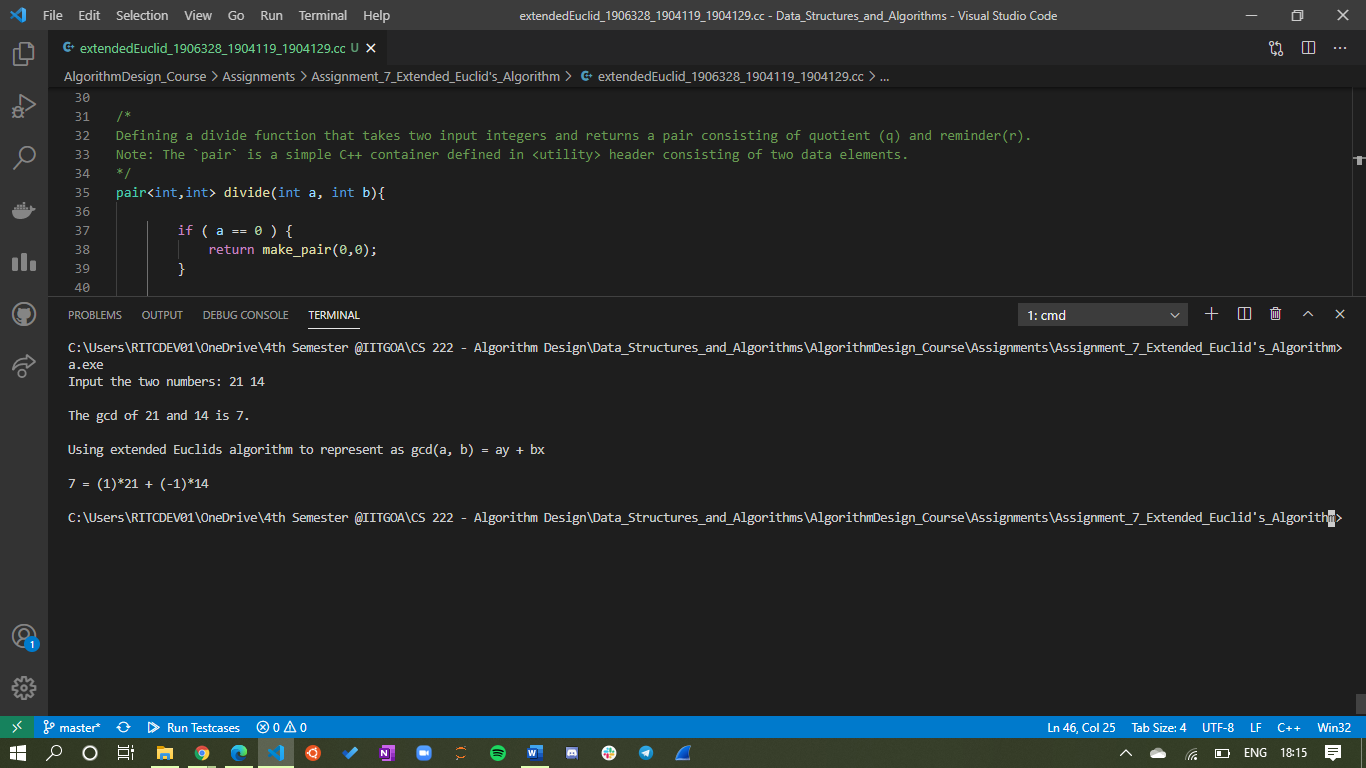
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*Problem Statement*



Here is the Sample Input and Output:



Time Complexity

If the input **a** is of **m** bits, **b** is of **n** bits,

* The complexity of divide (int a , int b) is of **O()**
* The complexity of gcd (int a , int b) is of **O()**