**LAB - 2**

Prime Factorisation and GCD:

**Prime Numbers**: The numbers that have only one and itself as a factor.

**Competitive Number**: The numbers that have more than two factors as a factor.

0 and 1 are neither prime nor competitive.

**Prime Factorization:** Prime factorization is a way of expressing a number as a product of its prime factors. [1]

**GCD:** In mathematics, the greatest common divisor (GCD) of two or more integers, which are not all zero, is the largest positive integer that divides each of the integers. For two integers x, y, the greatest common divisor of x and y is denoted. For example, the GCD of 8 and 12 is 4. [2]



[1]<https://www.google.com/search?q=prime+factorization&oq=prime+factorization&aqs=chrome..69i57j0l5j69i61l2.5535j0j7&sourceid=chrome&ie=UTF-8>

[2]<https://www.google.com/search?q=GCD&sxsrf=ALeKk02sjRzcMFoNs4kFDa3Wo8WZbFHstw%3A1626184195311&ei=A5rtYJbBEqK0mAWmvpfwCQ&oq=GCD&gs_lcp=Cgdnd3Mtd2l6EAMyBAgAEEMyBAgAEEMyAggAMgcIABCHAhAUMgIIADICCAAyAggAMgIIADICCAAyAggAOgQIIxAnOggILhDHARCjAkoECEEYAFC_rgNYr7EDYJO0A2gAcAJ4AIABgAGIAewCkgEDMy4xmAEAoAEBqgEHZ3dzLXdpesABAQ&sclient=gws-wiz&ved=0ahUKEwjWzrOamODxAhUiGqYKHSbfBZ4Q4dUDCA4&uact=5>