**Week-1**

**(Number Theory)**

**Problem no: - 1**

Problem link: - [Addition of Two Numbers](https://practice.geeksforgeeks.org/problems/addition-of-two-numbers0812/1)

Solution: - Just return A+B.

Example: - return A+B;

**Problem no: - 2**

Problem link: - [Prime Number](https://practice.geeksforgeeks.org/problems/prime-number2314/1)

Solution: - Generally Prime Number will have 2 factors 1 or Itself. Starting from **i =2** till **i\*i<N** (Given number is N) run the loop and divide N by every i. If N is divisible by i then return 0 else return 1.

**Problem no: - 3**

Problem link: - [LCM And GCD](https://practice.geeksforgeeks.org/problems/lcm-and-gcd4516/1)

Solution: - We have a formula in Mathematics.

**{A x B = L.C.M(A,B) x GCD(A,B)}**

So, we need to find G.C.D of (A,B) then we can find out L.C.M(A,B).

G.C.D(A,B) = If B!=0 then G.C.D(B,A%B) else A is the G.C.D of A and B.

**Problem no: - 4**

Problem link: - [Count Squares](https://practice.geeksforgeeks.org/problems/count-squares3649/1)

Solution: - Take a Count=0 Variable. Starting from i=1 till i\*i<=N, Keep on incrementing the Count value and Return it at the end.