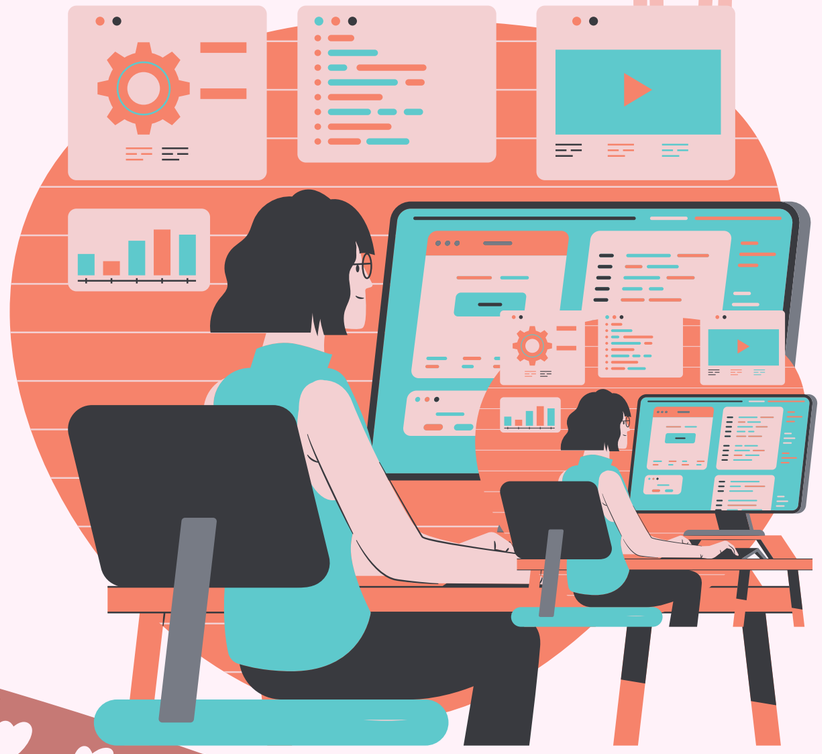
Programming Project

PRESENTED BY GROUP 2



Group Leader

Hello!

We are IAU students

Meet The Group

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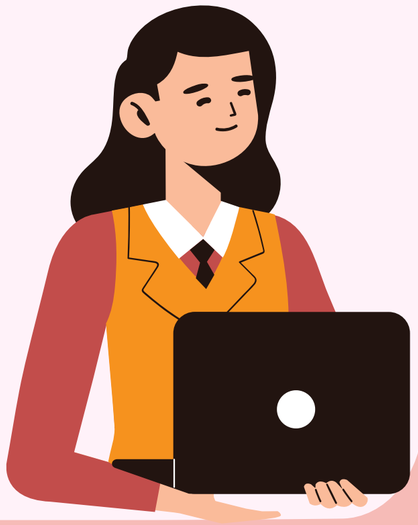

Lagrange's Four Square Theorem

THE CONCEPT

which states that every natural number can be written as sum of squares of four non negative integers.

$$n = a_1^2 + a_2^2 + a_3^2 + a_4^2$$

Hardy Ramanujam theorem

states that the number of prime factors of n will approximately be log(log(n)) for most natural numbers n

Euclidean algorithms (Basic and Extended)

GCD of two numbers is the largest number that divides both of them. A simple way to find GCD is to factorize both numbers and multiply common factors.

36 = 2 x 2 x 3 x 3
60 = 2 x 2 x 3 x 5

GCD = Multiplication of common factors
= 2 x 2 x 3
= 12

Thank You