1. ****Python Program for Sieve of Eratosthenes.****

**def SieveOfEratosthenes(n):**

**prime = [True for i in range(n + 1)]**

**p = 2**

**while (p \* p <= n):**

**if (prime[p] == True):**

**for i in range(p \* 2, n + 1, p):**

**prime[i] = False**

**p += 1**

**prime[0]= False**

**prime[1]= False**

**for p in range(n + 1):**

**if prime[p]:**

**print(p,)**

**if \_\_name\_\_=='\_\_main\_\_':**

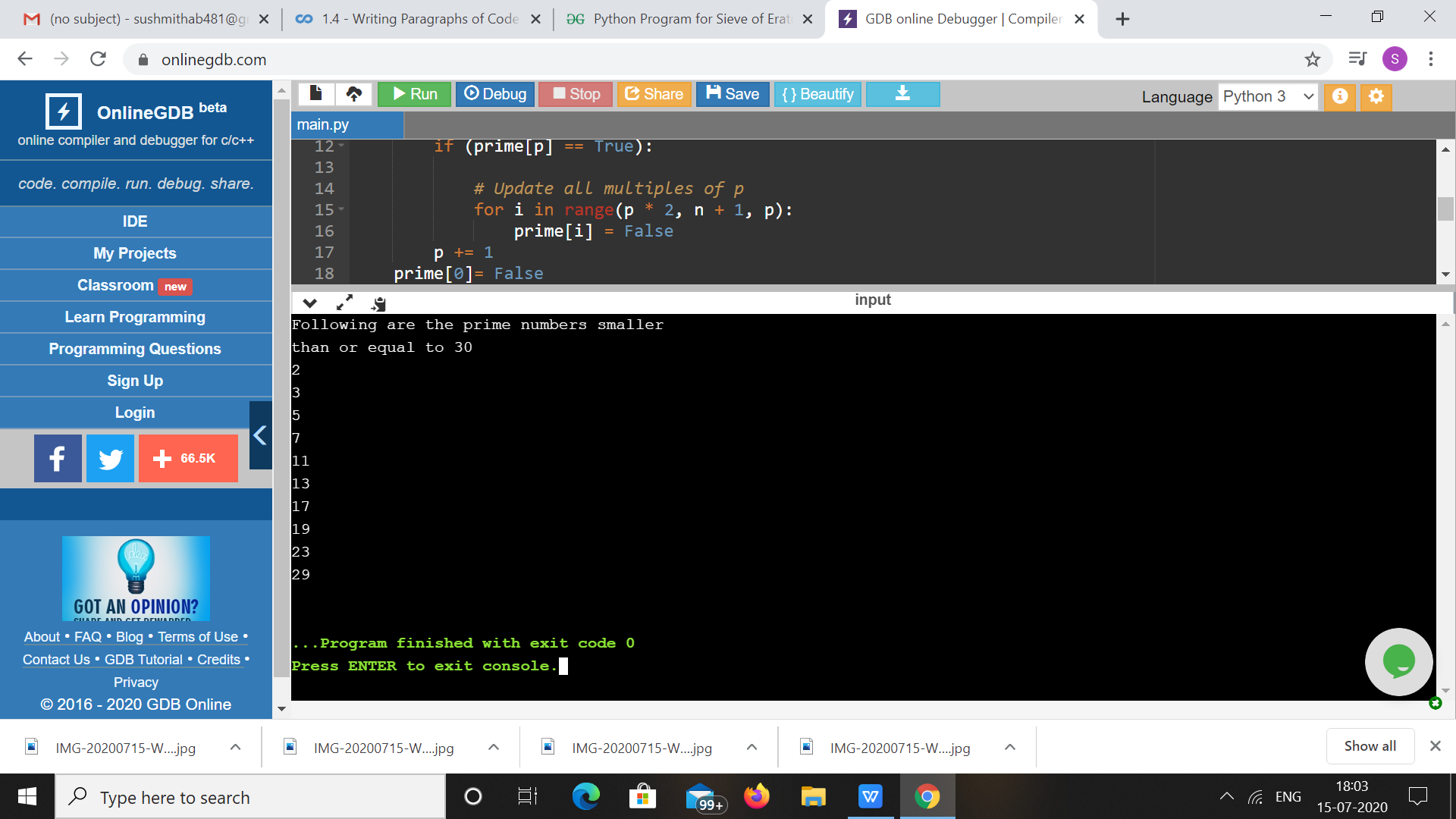
**n = 30**

**print("Following are the prime numbers smaller",)**

**print("than or equal to", n)**

**SieveOfEratosthenes(n)**

****OUTPUT****

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