## 1.python program for find largest prime factor of a number

**Code:**

import math

def maxPrimeFactors (n):

maxPrime = -1

while n % 2 == 0:

maxPrime = 2

n >>= 1

for i in range(3, int(math.sqrt(n)) + 1, 2):

while n % i == 0:

maxPrime = i

n = n / i

if n > 2:

maxPrime = n

return int(maxPrime)

n = 15

print(maxPrimeFactors(n))

n = 25698751364526

print(maxPrimeFactors(n))

**Output:**

