def is\_prime(n):

if n < 2:

return False

for i in range(2, int(n \*\* 0.5) + 1):

if n % i == 0:

return False

return True

nums = list(map(int, input("Enter positive integers: ").split()))

primes = [num for num in nums if is\_prime(num)]

composites = [num for num in nums if not is\_prime(num) and num > 1]

print("Prime numbers:", primes)

print("Composite numbers:", composites)