Program Name- Almost Prime Numbers

Project Category- Mathematical

Programming Paradigm Used- Prime Numbers

Explanation-

A k-Almost Prime Number is a number having exactly k prime factors (*not necessary distinct*).

For example,

2, 3, 5, 7, 11 ....(in fact all prime numbers) are 1-Almost Prime Numbers as they have only 1 prime factors (which is themselves).

4, 6, 9.... are 2-Almost Prime Numbers as they have exactly 2 prime factors (4 = 2*2, 6 = 2*3, 9 = 3*3)

Similarly 32 is a 5-Almost Prime Number (32 = 2*2*2*2*2) and so is 72 (2*2*2*3*3)

All the 1-Almost Primes are called as Prime Numbers and all the 2-Almost Prime are called as semi-primes

Purpose of the Program-

We have to print the first 10 numbers of k-Almost Prime Numbers (from k=1 to k=5)

References

https://en.wikipedia.org/wiki/Almost_prime