```
In [12]:
# prime number from 1 - 2500 using f
ilter function
def prime(i):
    for j in range(2,i):
        if i % j == 0:
            break
    else:
        return i
primeNo = filter(prime, range(1, 250
0+1))
print ('\nPrime numbers between 1-25
00:\n')
print(list(primeNo))
```

## Prime numbers between 1-2500:

19, 2, 3, 5, 7, 11, 13, 17, 23, 31, 37, 41, 43, 47, 53, 59, 61. 101, 67, 71, 73, 79, 83, 89, 97, 10 107, 109, 113, 127, 131, 137, 13 151, 157, 163, 167, 173, 17 149. 197, 193, 199, 181, 191, 211, 22 239, 233, 227, 241. 251. 229, 25 281, 263, 269, 271, 277, 283, 29 3, 307, 311, 313, 317, 331, 337, 34 367, 353, 349, 359. 373. 379. 38 421. 397, 3, 389, 401. 409. 419. 43 457, 461, 443, 449, 46 1, 433, 439, 499, 467, 487, 491, 479, 503. 50 9, 521, 523, 541, 547, 557. 563. 56 571, 577, 587, 593, 599, 601, 60 617, 631, 641, 64 619, 643. 613, 683, 69 661, 673, 677. 653, 659, 733, 701, 709, 719, 727, 739, 74 769, 751, 757, 773, 761, 787, 79 83 811, 821, 823, 827. 829, 809, 877, 881, 857, 859, 863, 88 853, 911, 937, 919, 929, 887, 907. 94 953, 967, 971, 977, 983, 947. 997, 1009, 1013, 1019, 1021, 103 1039, 1049, 1051, 1061, 1033, 106 1069, 1087, 1091, 1093, 1097, 110 1109, 1117, 1123, 1129, 1151, 115 1187, 1163, 1171, 1181, 1193. 120 1213, 1217, 1223, 1229. 1231. 123 1283, 1277, 1279, 1249, 1259, 128 1307, 1297, 1303, 1301, 131 1291, 1367, 1373, 1321, 1327, 1361, 138 1427, 1399, 1409, 1423, 1429, 143 1453, 1451, 147 1439, 1447, 1459. 1489, 1493. 1487. 1481, 1483, 149 1543, 1511, 1523, 1531, 1549, 155 1579, 159 1567, 1571, 1583, 1559, 1613, 1601, 1607, 1609, 1619, 162 1627, 1637, 1657, 1663, 1667, 166 1693, 1697, 1699, 1709, 1721,

```
1523,
   1511,
                1531,
                      1543,
                             1549,
                                   155
         1567,
   1559,
                1571, 1579,
                             1583,
                                   159
7,
   1601,
         1607,
               1609, 1613,
                             1619, 162
1,
         1637,
                1657, 1663,
                             1667, 166
   1627,
9,
                                   172
                1699, 1709,
                             1721,
   1693,
         1697,
3,
         1741,
                1747, 1753,
                             1759,
                                   177
   1733,
7,
                1789, 1801,
         1787,
                             1811,
                                   182
   1783,
3,
         1847,
                1861, 1867,
                             1871,
                                   187
   1831,
3,
                             1907,
         1879,
                1889, 1901,
                                   191
   1877,
3,
                             1973,
   1931,
         1933,
                1949, 1951,
                                   197
9,
   1987, 1993,
                1997, 1999,
                             2003,
                                   201
1,
   2017,
         2027,
                2029,
                      2039,
                             2053,
                                   206
3,
   2069, 2081,
                      2087, 2089,
                2083,
                                   209
9,
                2129, 2131, 2137,
   2111, 2113,
                                   214
1,
                2161, 2179, 2203,
                                   220
   2143, 2153,
         2221,
7,
   2213,
                2237, 2239, 2243,
                                   225
1,
   2267, 2269,
                2273, 2281, 2287,
                                   229
3,
                2311, 2333, 2339,
   2297, 2309,
                                   234
1,
                2357, 2371, 2377,
                                   238
   2347, 2351,
1,
   2383, 2389, 2393, 2399, 2411, 241
7, 2423, 2437, 2441, 2447, 2459, 246
7, 2473, 2477]
```