```
n=int(input("enter a number"))
primes=[]
for i in range (2,n+1):
 for j in range (2,i):
  if i%j==0:
   break
 else:
    primes.append(i)
 print(primes)
```

```
========== RESTART: C:\Users\nagir\factorial number1.py ==========
enter a number20
[2]
[2, 3]
[2, 3]
[2, 3, 5]
[2, 3, 5]
[2, 3, 5, 7]
[2, 3, 5, 7]
[2, 3, 5, 7]
[2, 3, 5, 7]
[2, 3, 5, 7, 11]
[2, 3, 5, 7, 11]
[2, 3, 5, 7, 11, 13]
[2, 3, 5, 7, 11, 13]
[2, 3, 5, 7, 11, 13]
[2, 3, 5, 7, 11, 13]
[2, 3, 5, 7, 11, 13, 17]
[2, 3, 5, 7, 11, 13, 17]
[2, 3, 5, 7, 11, 13, 17, 19]
[2, 3, 5, 7, 11, 13, 17, 19]

========== RESTART: C:\Users\nagir\factorial number1.py ==========
enter a number4
[2]
[2, 3]
[2, 3]

========== RESTART: C:\Users\nagir\factorial number1.py ==========
enter a number9
[2]
[2, 3]
[2, 3]
[2, 3, 5]
[2, 3, 5]
[2, 3, 5, 7]
[2, 3, 5, 7]
[2, 3, 5, 7]

========== RESTART: C:\Users\nagir\factorial number1.py ==========
enter a number21
[2]
[2, 3]
[2, 3]
```