```
def elements(start,end,l=[]):
  if start == end+1:
    return l
  elif start<2:
    return elements(start+1,end)
  def prime(n,i=2):
    if n==2:
      return n
    elif n == i+1:
      return n
    elif n%i==0:
      return None
    return prime(n,i+1)
  primeNum = prime(start)
  if isinstance(primeNum,int):
     l.append(primeNum)
  return elements(start+1,end)


elements(0,5)
```

```
[2, 3, 5]
```

```
x=[[j for j in range(i)] for i in range(1,5)]
print(x)
```

```
[[0], [0, 1], [0, 1, 2], [0, 1, 2, 3]]
```

```
x=[[j for j in range(i) if j%2==0] for i in range(1,8,2)]
print(x,'\n')
for i in x:
  print(i)
```

```
[[0], [0, 2], [0, 2, 4], [0, 2, 4, 6]]

[0]
[0, 2]
[0, 2, 4]
[0, 2, 4, 6]
```

```
x=[[j for j in range(5) if j%2==1],[i for i in range(5) if i%2==0]]
print('x : ',x)
```

```
x :  [[1, 3], [0, 2, 4]]
```

```
noprime=[j for i in range(2,8) for j in range(i*2,50,i)]
prime=[i for i in range(2,20) if i not in noprime]
print(prime)
```

```
[2, 3, 5, 7, 11, 13, 17, 19]
```

```
def pascal_triangle(n):
   trow = [1]
   y = [0]
   for x in range(max(n,0)):
      print(trow)
      trow=[l+r for l,r in zip(trow+y, y+trow)]
   return n>=1
pascal_triangle(6)
```

```
[1]
[1, 1]
[1, 2, 1]
[1, 3, 3, 1]
[1, 4, 6, 4, 1]
[1, 5, 10, 10, 5, 1]
True
```

```
list1=[456,230,376,302,44,50,760]
list2=[]
for i in range(len(list1)):
  list1[i]=str(list1[i])
print(list1)
for i in list1:
  if '0' not in i:
    list2.append(int(i))
print(list2)
```

```
list1=[456,230,376,302,44,50,760]
list2=[str(i) for i in list1]
list3=[int(i) for i in list2 if '0' not in i]
print(list3)
```

```
[456, 376, 44]
```

```
list1=[456,230,376,302,44,50,760]
result=lambda list2=[str(i) for i in list1]:[int(i) for i in list2 if '0' not in i]
result()
```

```
[456, 376, 44]
```

```
list1=[456,230,376,302,44,50,760]
list2=[]
def str_convert(i=0):
  if i==len(list1):
    return
  list2.append(str(list1[i]))
  str_convert(i+1)

str_convert()
print(list1)
print(list2)
```

```
list1=[456,230,376,302,44,50,760]
list2=[]
def str_convert(i=0):
  if i==len(list1):
    def filter(j=0):
      if j==len(list1):
        return
      if '0' not in list1[j]:
        list2.append(int(list1[j]))
      filter(j+1)
    filter()
    return
  list1[i]=str(list1[i])
  str_convert(i+1)

str_convert()
print(list1)
print(list2)
```

```
['456', '230', '376', '302', '44', '50', '760']
[456, 376, 44]
```

```
for i in range(len(list1)):
  if '0' not in list1[i]:
    list2.append(list1[i])


print(list2)
```

```
['456', '376', '44', '456', '376', '44']
```

```
l=[parent for parent in range(1,6) for child in range(parent)]
print(l)
```

```
[1, 2, 2, 3, 3, 3, 4, 4, 4, 4, 5, 5, 5, 5, 5]
```

```
l=[2,3,4,5,6,7,8,9,10]
l1=[]
def prime(index=0):
  if index==len(l):
    return
  for i in range(2,l[index]):
    if l[index]%i==0:
      prime(index+1)
      break
  else:
    l1.append(l[index])
    prime(index+1)
prime()
print(l)
print(l1)
```

```
l=[1,2,3,4,5,6,7,8,9,10]
l1=[[],[]]
for i in l:
  if i%2==0:
    l1[0].append(i)
  else:
    l1[1].append(i)
print(l1)
```

```
[[2, 4, 6, 8, 10], [1, 3, 5, 7, 9]]
```

```
l=[1,2,3,4,5,6,7,8,9,10]
new_l=[]
def is_prime(index=0):
  if index==len(l):
    return print(new_l)
  if l[index]<2:
    is_prime(index+1)
    return
  def prime(i=2,j=l[index]):
    if i==j:
        new_l.append(j)
        is_prime(index+1)
        return
    if j%i==0:
        is_prime(index+1)
        return
    prime(i+1)
  prime()
is_prime()
```

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