```
# Find second largest with two numbers
mylist = [10,20,4,20,40,8]
max = 0
second_max = 0
for i in mylist:
  if(i>max):
    if(i>max):
      second_max = max
      max = i
    elif(i>second_max and i!=max):
      second_max = i
print(second_max)
```

```
20
```

```
# Valid Parenthesis
list1=[]
x=0
for i in "[{}]":
  if i in "[({":
    list1.append(i)
  else:
    if(i=="}" and list1.pop()!="{"):
      break
      x+=1
    elif(i==")" and list1.pop()!="("):
      break
      x+=1
    elif(i=="]" and list1.pop()!="["):
      break
      x+=1
if(x==1):
  print("Not a valid parenthesis")
else:
  print("valid parenthesis")
```

```
valid parenthesis
```

```
#nested list
mylist=[10,20,[30,40]]
mylist[-1][0]
```

```
30
```

```
# pascal list
mylist = [[1]]
n=5
for i in range(0,n-1):
  temp=[0]+mylist[-1]+[0]
  list1 = []
  #[0,10]    , mylist=1
  for j in range(len(mylist)+1):
    list1.append(temp[j]+temp[j+1])
  mylist.append(list1)
print(mylist)
```

```
[[1], [1, 1], [1, 2, 1], [1, 3, 3, 1], [1, 4, 6, 4, 1]]
```

```
# pascal triangle
mylist = []
for i in range(0, 5):
    temp = []
    for j in range(0, i + 1):
        if j == 0 or j == i:
            temp.append(1)
        else:
            temp.append(mylist[i - 1][j - 1] + mylist[i - 1][j])
    mylist.append(temp)

for row in mylist:
    print(row)
```

```
[1]
[1, 1]
[1, 2, 1]
[1, 3, 3, 1]
[1, 4, 6, 4, 1]
```

+ Code + Text