1)

def max\_of\_two( x, y ):

if x > y:

return x

return y

def max\_of\_three( x, y, z ):

return max\_of\_two( x, max\_of\_two( y, z ) )

print(max\_of\_three(3, 6, -5))

2)

def multiply(numbers):

total = 1

for x in numbers:

total \*= x

return total

print(multiply((8, 2, 3, -1, 7)))

3)

num = 11

if num > 1:

for i in range(2, num//2):

if (num % i) == 0:

print(num, "is not a prime number")

break

else:

print(num, "is a prime number")

else:

print(num, "is not a prime number")

4)

def perfect\_number(n):

sum = 0

for x in range(1, n):

if n % x == 0:

sum += x

return sum == n

print(perfect\_number(6))

5)

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)