1. def showDivisible(in\_num):

for ele in range(0,in\_num):

if (ele%5 == 0) and (ele%7 == 0):

yield ele

for ele in showDivisible(100):

print(ele,end=' ')

Output:

0 35 70

1. def genEvenNumbers(in\_num):

for ele in range(in\_num+1):

if ele%2 == 0:

yield ele

for ele in genEvenNumbers(10):

print(ele,end=' ')

Output:

0 2 4 6 8 10

1. def genFibonaci(in\_num):

if in\_num == 0:

return 0

elif in\_num == 1:

return 1

else:

return genFibonaci(in\_num-1)+genFibonaci(in\_num-2)

print([genFibonaci(x) for x in range(20)])

Output:

[0, 1, 1, 2, 3, 5, 8, 13, 21, 34, 55, 89, 144, 233, 377, 610, 987, 1597, 2584, 4181]

1. def getUsernames():

in\_string = input('Enter Email Address(es): ')

out\_string = in\_string.split('@')

print(f'Username of {in\_string} is {out\_string[0]}')

for i in range(3):

getUsernames()

Output:

Enter Email Address(es): amanovishnu@gmail.com

Username of amanovishnu@gmail.com is amanovishnu

Enter Email Address(es): support.query@ineuron.ai

Username of support.query@ineuron.ai is support.query

Enter Email Address(es): manovishnu@outlook.com

Username of manovishnu@outlook.com is manovishnu

1. class Shape:

def area(self):

return 0

class Square(Shape):

def \_\_init\_\_(self, length):

self.length = length

def area(self):

return self.length\*self.length

square = Square(50)

print(square.area())

Output:

2500