#Name: Teena Hirekerur

#Rollno:COBC42

#Assignmentno: DAA-1

def recursive\_fibonacci(n):

if n <= 1:

return n

else:

return recursive\_fibonacci(n-1)+ recursive\_fibonacci(n-2)

def non\_recursive\_fibonacci(n):

first = 0

second = 1

print(first)

print(second)

while n-2 > 0:

third=first + second

first=second

second=third

print(third)

n-=1

if \_\_name\_\_== "\_\_main\_\_":

n=10

for i in range(n):

print(recursive\_fibonacci(i))

non\_recursive\_fibonacci(n)

0

1

1

2

3

5

8

13

21

34

0

1

1

2

3

5

8

13

21

34