**Program no:1**

# Python Program for Fibonacci numbers.

# Function for nth fibonacci number - Space Optimisataion

# Taking 1st two fibonacci numbers as 0 and 1

def fibonacci(n):

a = 0

b = 1

if n < 0:

print("Incorrect input")

elif n == 0:

return a

elif n == 1:

return b

else:

for i in range(2,n):

c = a + b

a = b

b = c

return b

# Driver Program

print(fibonacci(9))