1)Write a Python program that performs the following tasks:  
  
1. Ask the user to enter a positive integer `n`.  
2. Use a `for` loop to print all numbers from `1` to `n` on separate lines.  
3. Use a `while` loop to calculate the sum of all numbers from `1` to `n` and print the result.

1. Write a Python program that includes a user-defined function to perform the following tasks:  
     
   1. Define a function named calculate\_square that takes a single argument `n` and returns the square of `n`.  
   2. In the main program, ask the user to input a positive integer.  
   3. Call the calculate\_square function with the user-provided number and display the result.

# Task 1: Ask the user to enter a positive integer n

n = int(input("Enter a positive integer: "))

# Task 2: Use a for loop to print all numbers from 1 to n on separate lines

print("Numbers from 1 to", n, ":")

for i in range(1, n + 1):

print(i)

# Task 3: Use a while loop to calculate the sum of all numbers from 1 to n and print the result

sum\_n = 0

i = 1

while i <= n:

sum\_n += i

i += 1

print(f"The sum of all numbers from 1 to {n} is: {sum\_n}")

# Task 1: Define a function named calculate\_square that takes a single argument n and returns the square of n

def calculate\_square(n):

return n \* n

# Task 2: In the main program, ask the user to input a positive integer

n = int(input("Enter a positive integer: "))

# Task 3: Call the calculate\_square function with the user-provided number and display the result

square\_n = calculate\_square(n)

print(f"The square of {n} is: {square\_n}")