**Task 1 Description :-**

**Welcome to Python — your first step into the world of programming. In this task, you’ll solve core Python challenges that test your logic and coding fundamentals. These problems are designed to build your confidence before you move into real-world projects like automation, APIs, or machine learning.**

**Code:-**

a = int(input("Enter first number: "))

b = int(input("Enter second number: "))

print("Sum:", a + b)

num = int(input("Enter a number: "))

print("Even" if num % 2 == 0 else "Odd")

def factorial(n):

result = 1

for i in range(2, n + 1):

result \*= i

return result

num = int(input("Enter a number: "))

print("Factorial:", factorial(num))

n = int(input("How many Fibonacci numbers? "))

a, b = 0, 1

for \_ in range(n):

print(a, end=" ")

a, b = b, a + b

text = input("Enter a string: ")

print("Reversed:", text[::-1])

word = input("Enter a word: ")

print("Palindrome" if word == word[::-1] else "Not a palindrome")

year = int(input("Enter a year: "))

is\_leap = (year % 4 == 0 and year % 100 != 0) or (year % 400 == 0)

print("Leap Year" if is\_leap else "Not a Leap Year")

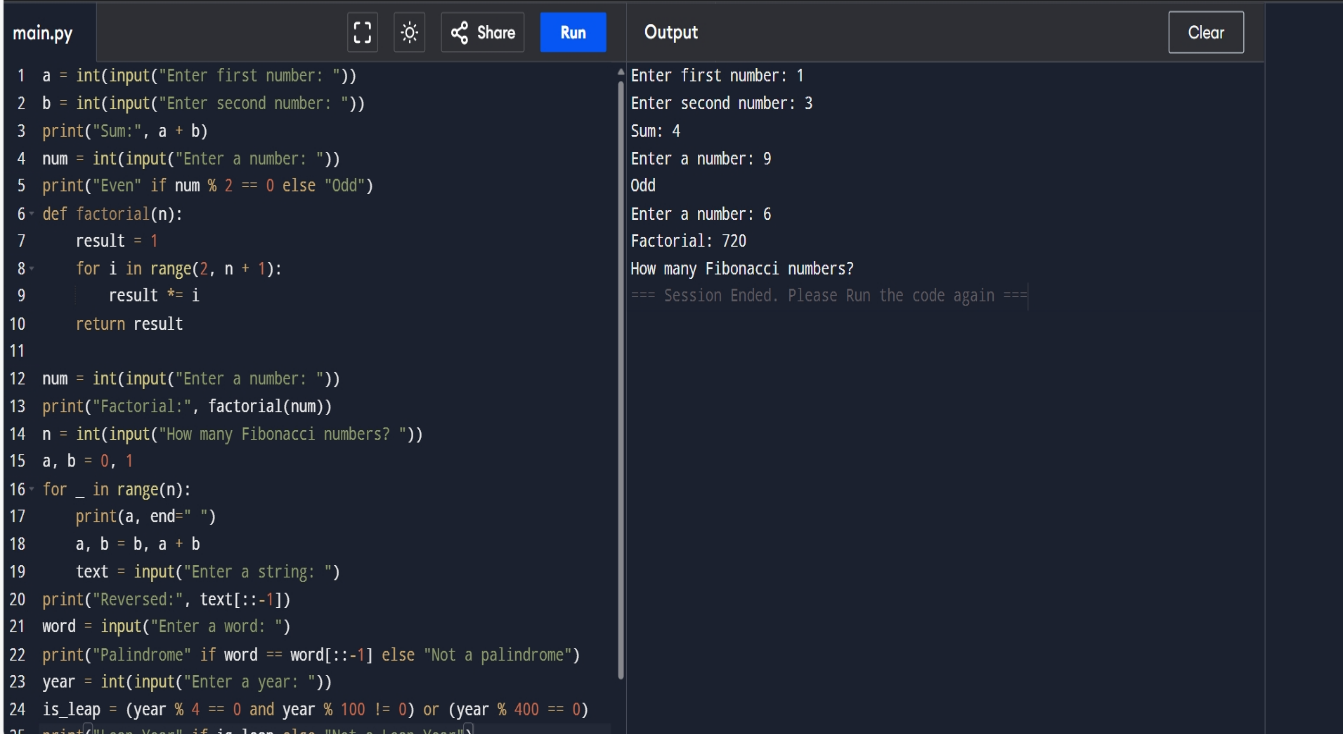
num = int(input("Enter a number: "))

order = len(str(num))

sum\_val = sum(int(digit) \*\* order for digit in str(num))

print("Armstrong Number" if num == sum\_val else "Not an Armstrong Number")

**OUT:-**

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