**Problem 1**

# Write a program to demonstrate the use of different operators in python.  
  
def operators\_demo(a, b):  
 print("Addition:", a + b)  
 print("Subtraction:", a - b)  
 print("Multiplication:", a \* b)  
 print("Division:", a / b if b != 0 else "Undefined")  
 print("Modulus:", a % b if b != 0 else "Undefined")  
 print("Floor Division:", a // b if b != 0 else "Undefined")  
 print("Exponentiation:", a \*\* b)  
 print("Equal:", a == b)  
 print("Not Equal:", a != b)  
 print("Greater:", a > b)  
 print("Smaller:", a < b)  
 print("Logical AND:", a > 0 and b > 0)  
 print("Logical OR:", a > 0 or b > 0)  
 print("Logical NOT:", not(a > 0))  
  
a = int(input("Enter first number: "))  
b = int(input("Enter second number: "))  
operators\_demo(a, b)

**Output**

Error: API returned error: This request requires more credits, or fewer max\_tokens. You requested up to 100 tokens, but can only afford 44. To increase, visit https://openrouter.ai/settings/credits and upgrade to a paid account

**Problem 2**

# Write a program to print Fibonacci Series 0 1 1 2 3 5 ………..N  
  
n = int(input("Enter the number of terms: "))  
a, b = 0, 1  
print("Fibonacci Series:")  
for \_ in range(n):  
 print(a)  
 a, b = b, a + b

**Output**

Error: API returned error: This request requires more credits, or fewer max\_tokens. You requested up to 100 tokens, but can only afford 44. To increase, visit https://openrouter.ai/settings/credits and upgrade to a paid account

**Problem 3**

# Write a program to print the sum of first n prime numbers.  
  
def is\_prime(num):  
 if num < 2:  
 return False  
 for i in range(2, int(num \*\* 0.5) + 1):  
 if num % i == 0:  
 return False  
 return True  
  
n = int(input("Enter Number of Prime Numbers to Sum: "))  
count, num, total = 0, 2, 0  
while count < n:  
 if is\_prime(num):  
 total += num  
 count += 1  
 num += 1  
print("Sum of first", n, "prime numbers is:", total)

**Output**

Error: API returned error: This request requires more credits, or fewer max\_tokens. You requested up to 100 tokens, but can only afford 44. To increase, visit https://openrouter.ai/settings/credits and upgrade to a paid account