1. Write a Python Program to Find the Factorial of a Number?
2. Write a Python Program to Display the multiplication Table?
3. Write a Python Program to Print the Fibonacci sequence?
4. Write a Python Program to Check Armstrong Number?
5. Write a Python Program to Find Armstrong Number in an Interval?
6. Write a Python Program to Find the Sum of Natural Numbers?

Answer: Sure! Here are the solutions to the programs you've requested:

1. Python Program to Find the Factorial of a Number:

```python

def factorial(n):

if n == 0 or n == 1:

return 1

else:

return n \* factorial(n - 1)

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

result = factorial(number)

print("Factorial of", number, "is", result)

```

2. Python Program to Display the Multiplication Table:

```python

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

print("Multiplication Table of", number)

for i in range(1, 11):

print(number, "x", i, "=", number \* i)

```

3. Python Program to Print the Fibonacci Sequence:

```python

def fibonacci(n):

if n <= 0:

return []

elif n == 1:

return [0]

elif n == 2:

return [0, 1]

else:

sequence = [0, 1]

while len(sequence) < n:

next\_number = sequence[-1] + sequence[-2]

sequence.append(next\_number)

return sequence

number = int(input("Enter the number of terms: "))

result = fibonacci(number)

print("Fibonacci Sequence:")

print(result)

```

4. Python Program to Check Armstrong Number:

```python

def is\_armstrong\_number(num):

temp = num

num\_of\_digits = len(str(num))

sum\_of\_digits = 0

while temp > 0:

digit = temp % 10

sum\_of\_digits += digit \*\* num\_of\_digits

temp //= 10

if num == sum\_of\_digits:

return True

else:

return False

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

if is\_armstrong\_number(number):

print(number, "is an Armstrong number.")

else:

print(number, "is not an Armstrong number.")

```

5. Python Program to Find Armstrong Numbers in an Interval:

```python

def is\_armstrong\_number(num):

temp = num

num\_of\_digits = len(str(num))

sum\_of\_digits = 0

while temp > 0:

digit = temp % 10

sum\_of\_digits += digit \*\* num\_of\_digits

temp //= 10

if num == sum\_of\_digits:

return True

else:

return False

start = int(input("Enter the starting number of the interval: "))

end = int(input("Enter the ending number of the interval: "))

armstrong\_numbers = []

for number in range(start, end + 1):

if is\_armstrong\_number(number):

armstrong\_numbers.append(number)

print("Armstrong Numbers in the interval", start, "to", end, "are:")

print(armstrong\_numbers)

```

6. Python Program to Find the Sum of Natural Numbers:

```python

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

if n <= 0:

print("Please enter a positive integer.")

else:

sum\_of\_numbers = (n \* (n + 1)) // 2

print("Sum of the first", n, "natural numbers is", sum\_of\_numbers)

```