Assignment 4

1. Write a Python Program to Find the Factorial of a Number?

```
In [25]: import math
    num = int(input("Enter the number "))
    print("factorial of the number {} is {}".format(num, math.factorial(num)))

Enter the number 5
    factorial of the number 5 is 120
```

2. Write a Python Program to Display the multiplication Table?

```
In [31]: num = int(input("Enter a number "))
           end = int(input("Enter the end value "))
           for i in range (1, end + 1):
                print(f" \{num\} x \{i\} = ", num*i)
           Enter a number 56
           Enter the end value 14
            56 \times 1 = 56
            56 \times 2 = 112
            56 \times 3 = 168
            56 \times 4 = 224
            56 \times 5 = 280
            56 \times 6 = 336
            56 \times 7 = 392
            56 \times 8 = 448
            56 \times 9 = 504
            56 \times 10 = 560
            56 \times 11 = 616
            56 \times 12 = 672
            56 \times 13 = 728
            56 \times 14 = 784
```

3. Write a Python Program to Print the Fibonacci sequence?

4. Write a Python Program to Check Armstrong Number?

```
In [47]: num =int(input("Enter a number "))

start = 0
a = b
while a > 0:
    cal = a % 10
    start += cal ** 3
    a //= 10

if b == start:
    print(f"{num} is an Armstrong number")
else:
    print(f"{num} is not an Armstrong number")
Enter a number 1054
```

1054 is not an Armstrong number

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5. Write a Python Program to Find Armstrong Number in an Interval?

6. Write a Python Program to Find the Sum of Natural Numbers?

In []: