Assignment 1

```python
def recursive_fibonacci(n):
    if n <= 1:
        return n
    else:
        return recursive_fibonacci(n-1) + recursive_fibonacci(n-2)


def non_recursive_fibonacci(n):
    first = 0
    second = 1
    print(first)
    print(second)
    while n - 2 > 0:
        third = first + second
        first = second
        second = third
        print(third)
        n -= 1


if __name__ == "__main__":
    n = int(input("Enter the number: "))

    print("Recursive")
    for i in range(n):
        print(recursive_fibonacci(i))

    print("Non-Recursive")
    non_recursive_fibonacci(n)
```

Output:

Enter the number: 11
Recursive
0
1
1
2
3
5
8
13
21
34
55
Non-Recursive
0
1
1
2
3
5
8
13
21
34
55