



localhost:8888/notebooks/DAY%208%20ASSIGNMENT%20USING%20DECORATOR.ipynb#

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# FIBONACCI SERIES USING DECORATOR

```
In [23]: def smart_fibo(num):
        def Fibonacci(n):
            if n<=0:
                print("Incorrect input")
            elif n==1:
                return 0
            elif n==2:
                return 1
            else:
                return Fibonacci(n-1)+Fibonacci(n-2)
            return num(n)
        return Fibonacci
```

```
In [24]: @smart_fibo
        def fibo(n):
            print("The number is",n)
```

```
In [29]: fibo(1)
Out[29]: 0
```

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```
        elif n==1:
            return 0

        elif n==2:
            return 1
        else:
            return Fibonacci(n-1)+Fibonacci(n-2)
        return num(n)
    return Fibonacci
```

```
In [24]: @smart_fibo
        def fibo(n):
            print("The number is",n)
```

```
In [31]: fibo(2)
Out[31]: 1
```