Week 6 Programming Assignment

Question 1

```
def fun(x,y):
    if(y==0):
        return 0
    return x + fun(x,y-1)

mylist = input().split()
x = eval(mylist[0])
y = eval(mylist[1])

print(fun(x,y), end="")
```

Question 2:

```
def log2(x):
    if x==1:
        return 0
    return 1+log2(x//2)

x = int(input())

print(log2(x),end="")
```

Question 3

```
def non_decreasing(L,n):
    if n == 0 or n == 1:
        return True

    return L[n-1] >= L[n-2] and non_decreasing(L,n-1)


temp = input().split()
L = [eval(i) for i in temp]
n = len(L)

print(non_decreasing(L,n),end="")
```