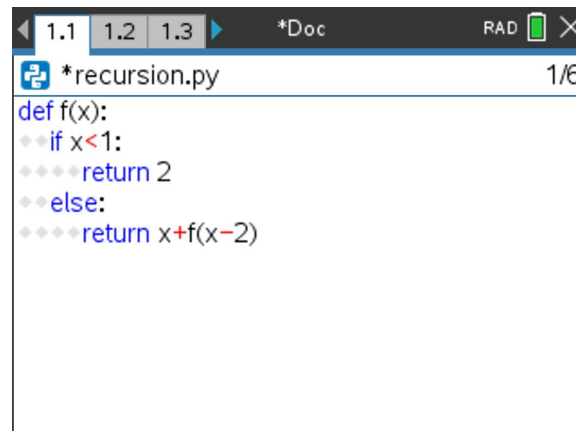


# Recursion

Recursion Overview

Recursive Case

# Recursion

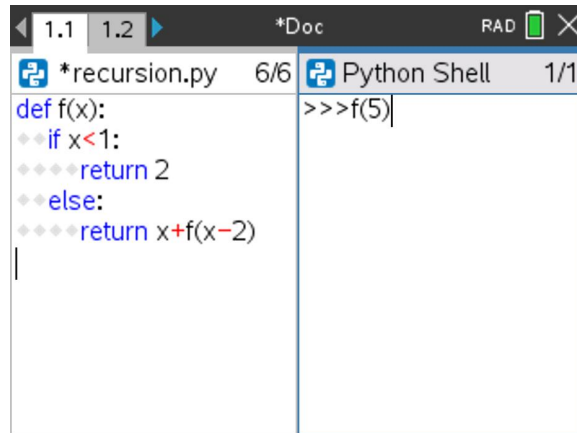


```
*recursion.py 1/6
def f(x):
    if x < 1:
        return 2
    else:
        return x+f(x-2)
```

Base Case

# Recursion

## Recursion Example



The image shows a screenshot of a Python IDE window titled '\*Doc'. The window is split into two panes. The left pane shows a Python file named '\*recursion.py' with 6 lines of code. The code defines a function `f(x)` that returns 2 if `x < 1`, and otherwise returns `x + f(x-2)`. The right pane is a 'Python Shell' with 1 line of code: `>>>f(5)`.

```
1.1 1.2 *Doc RAD X
*recursion.py 6/6 Python Shell 1/1
def f(x):
    if x < 1:
        return 2
    else:
        return x+f(x-2)
|
>>>f(5)
```