

# Learning Java by Projects

---

PROJECT 19: TOWER

DR. ERIC CHOU

IEEE SENIOR MEMBER



# Objectives

---

- Nested Loops

ACTIVITY 1

# Problem Statement

---

```
##
##
####
##
####
#####
##
####
#####
#####
#####
##
####
#####
#####
#####
```

Create This  
Tower of n  
levels



# tower(n)

tower(1): Generate a tower of one ## level (2)

tower(2): Generate a tower with two ## levels ( 2 and 2+4 )

tower(3): Generate a tower with three ## levels (2, 2+4, 2+4+6)

tower(4): Generate a tower with four ## levels (2, 2+4, 2+4+6, 2+4+6+8)

tower(5): Generate a tower with five ## levels (2, 2+4, 2+4+6, 2+4+6+8, 2+4+6+8+10)

Two level nested loops are recommended.

Recursion is fine but not required.

Please design your tower(n) function so that it can handle at least n=20

