

# BAND OF THE HOUR CLASS

## Class Set UP

- Declare instance variables
- Declare Global Variables (MAX\_NUMBER\_OF\_ROWS)  
(MAX\_NUMBER\_OF\_POSITIONS)
- Import Scanner object

#1

#2

## input & constructor

- Constructor takes one parameter (number of Rows)
- Set the weights
  - cannot exceed 200kg AND
  - total cannot exceed 100kg per position
- Call the set ROW Position() method after the user inputs the number of rows and it is validated
- Rows will use Letters of the alphabet ... starting @ "A"

## Methods

- Set ROW POSITIONS
  - Loops through each row
  - validate that the input is in range (1 - MAX\_NUMBER\_OF\_POSITIONS)
- Add Musician
  - Ask user for row letter and position
  - Validate the input
  - ASK For valid Weight
  - insert the new musician in the correct placement
  - keep the amount of positions
  - only allow users to fill each place once
- Remove Musician
  - Ask the user for the row letter and position
  - validate the input
  - make sure the position selected has a Musician in it
  - keep the order of other musicians
- Print Current
  - format !! aligned left
  - print each row with label
  - call the get Total Weight and get TOTAL Average
- get Total ROW Weight
  - calculate the total weight
- get Average ROW Weight
  - take the total ROW Weight and divide it by how many positions there are

#3

#4

## OUT PUT

- Print out the welcome message
- prompt the user for the amount of rows
- Validate the number of rows with a do-while loop
- create an object of the BandOfTheHour
- use a Do While to continue to loop user back to the menu options until the letter "X" is inputted.