Application Description
This application produces a “banner” of a message (like your initials, just letters) based on the message the user provides. This will be a horizontal banner. The user also specifies the size used to calculate the height and width of the letters. (NOTE: All letters are the same size). The formula to calculate the height = width = 2 * size + 1 (e.g. if user enter a size = 3 then the height and width will be (2 * 3 + 1 = 7) height and width are equals and will be equal to 7.

Project structure requirements & overview
You have to write the whole program by using the main class. This is a very big main class, this is not the efficient way to do this, but the idea is “practice loops if statements”.

1. Design each letter (26 total) [A..Z]: First you have to design each letter with some specific height and width which must be odd number. eg. 7. You can start the first letter “A” or “Y”

For each letter you have to find a pattern. Then use that pattern to create your nested loop with “if, else-if” etc… statements.

Hints: you have to print row by row. Display 3 spaces between each letter in the same row. If you found a “space” just print 3 spaces instead. In order to find a pattern you have to analyze: What happened in the top/bottom/middle row or first/middle/last column, or before/after middle row/column, diagonal (row=column).

UserOptions Interface

NOTES on user I/O.
• Program has to validate the user input. size = any number between 2 and 9. Use a while loop to repeat until user enter a valid number.
• Read the input message as a String variable. Use a string method to convert it into upper case letters.
• You must use for loop to print each row and each column