**BIT 142**

**Total: 50 Points**

**25 for style**

**25 for working code**

Intermediate Programming

*Major Assignment 2*

**The Task:**

I have a business that sells quilts of the same pattern, but different sizes depending on the customers needs.

* The quilts I sell look like this. This is the original size quilt:

#================#

| <><> |

| <>....<> |

| <>........<> |

|<>............<>|

|<>............<>|

| <>........<> |

| <>....<> |

| <><> |

#================#

* However, sometimes my customers want it to be twice (2x) the original size, so it would look like this:

#================# #================#

| <><><><> |

| <>........<> |

| <>................<> |

|<>........................<>|

|<>........................<>|

| <>................<> |

| <>........<> |

| <><><><> |

#================# #================#

* Sometimes my customers want it to be three times (3x) the original size, so it would look like this:

(see next page)

#================# #================# #================#

| <><><><><><> |

| <>............<> |

| <>........................<> |

|<>....................................<>|

|<>....................................<>|

| <>........................<> |

| <>............<> |

| <><><><><><> |

#================# #================# #================#

* A customer is able to request a quilt with this pattern as big as they want. For example, if a customer requests a quilt of size 7 (7x) it would look like this:

#================# #================# #================# #================# #================# #================# #================#

| <><><><><><><><><><><><><><> |

| <>............................<> |

| <>........................................................<> |

|<>....................................................................................<>|

|<>....................................................................................<>|

| <>........................................................<> |

| <>............................<> |

| <><><><><><><><><><><><><><> |

#================# #================# #================# #================# #================# #================# #================#

**What You Need to Do:**Your job is to implement a program that prints this quilt to the given size (from the customer).I have left a few examples below:

Welcome to Tina’s Quilts! I’m glad you’re here!

What size quilt would you like?

**1**

Sure! Coming right up…

#================#

| <><> |

| <>....<> |

| <>........<> |

|<>............<>|

|<>............<>|

| <>........<> |

| <>....<> |

| <><> |

#================#

Welcome to Tina’s Quilts! I’m glad you’re here!

What size quilt would you like?

**3**

Sure! Coming right up…

#================# #================# #================#

| <><><><><><> |

| <>............<> |

| <>........................<> |

|<>....................................<>|

|<>....................................<>|

| <>........................<> |

| <>............<> |

| <><><><><><> |

#================# #================# #================#

**Note: The customer should be able to put any size in your program (EX: 100).**

**HINTS:**

A screenshot of a cell phone

Description automatically generated

* Comment on your code (not how, but WHAT)
* Use the concepts we learned in class
  + Refer to the PPT slides

Feel free to come to me with any questions!