Assessment: Exercise01

Student Name: Ryan Thompson

Lab Professor Name: *Matthew Neadow*

Lab Section Number: 300

Due Date: Jan 22, 2023.

# Understand the Problem

For this problem, no inputs are needed. There were no calculations to be made. The outputs that the program needs to provide are 13 lines of System.out.println(“”) with various lines and dashes to create a castle. There is one line of System.out.println(“”) to state who made the program.

# Pseudocode

* Start
  + Output “ >>> >>> ”
  + Output “ | | ”
  + Output “= == = = == = ”
  + Output “| | >>> | | ”
  + Output “| [] | | | [] | ”
  + Output “| |= = = = = =| | ”
  + Output “| [] | [] [] | [] | ”
  + Output “| | === | | ”
  + Output “| [] | | | | [] | ”
  + Output “| | | | | | ”
  + Output “~~~~~~~~~/ /~~~~~~~~~~”
  + Output “~~~~~~~~/ /~~~~~~~~~ ”
  + Output “ / / ”
  + Output Program by Ryan Thompson”
* Stop

# Flowchart

Chart, box and whisker chart

Description automatically generated

# Test plan for Pseudocode and Flowchart

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Input | Expected Output | | Actual Output | Description | |
|  | >>> >>>  | |  = == = = == =  | | >>> | |  | [] | | | [] |  | |= = = = = =| |  | [] | [] [] | [] |  | | === | |  | [] | | | | [] |  | | | | | |  ~~~~~~~~~/ /~~~~~~~~~~  ~~~~~~~~/ /~~~~~~~~~  / /  Program by Ryan Thompson | >>> >>>  | |  = == = = == =  | | >>> | |  | [] | | | [] |  | |= = = = = =| |  | [] | [] [] | [] |  | | === | |  | [] | | | | [] |  | | | | | |  ~~~~~~~~~/ /~~~~~~~~~~  ~~~~~~~~/ /~~~~~~~~~  / /  Program by Ryan Thompson | | | Output as expected |

# Screenshot of Program Execution

Graphical user interface, text

Description automatically generated

# Program Test plan

|  |  |  |  |
| --- | --- | --- | --- |
| Input | Expected Output | Actual Output | Description |
|  | >>> >>>  | |  = == = = == =  | | >>> | |  | [] | | | [] |  | |= = = = = =| |  | [] | [] [] | [] |  | | === | |  | [] | | | | [] |  | | | | | |  ~~~~~~~~~/ /~~~~~~~~~~  ~~~~~~~~/ /~~~~~~~~~  / /  Program by Ryan Thompson | >>> >>>  | |  = == = = == =  | | >>> | |  | [] | | | [] |  | |= = = = = =| |  | [] | [] [] | [] |  | | === | |  | [] | | | | [] |  | | | | | |  ~~~~~~~~~/ /~~~~~~~~~~  ~~~~~~~~/ /~~~~~~~~~  / /  Program by Ryan Thompson | Following the Pseudocode, I created a simple java program using Eclipse to create a castle with various lines and dashes which worked as intended |