**Lab:** Lab 3

**Registration number:** 1604361

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| **Problem statement(s)**  This lab shows how to draw simple shapes and resize them on the go. It demonstrates how to use different classes to calculate shape area. |

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| **Program description(s)**  The lab demonstrates how to draw shapes and how to resize them according to a text box input. It also calculates the area of the shapes. |

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| **Test description**  Test 1: Does the code compile.  Result 1: Yes  Test 2: Does the square and circle draw on?  Result 2: Yes  Test 3: Does the square resize depending on the text box input?  Result 3 : Yes  Test 4: Does the circle resize depending on the text box input?  Result 4 : Yes  Test 5: are the areas calculated correctly?  Result 5: Yes. |
| **Known bugs**  None |
| **Possible improvements**  The shapes could be centered and a reset button could be added. |
| **Comments**  Good lab. Instructions were confsing but the skeleton code helped. |
| **Extra credit**  I also formatted the area of the circle to 2dp as pi was used and that gives a long decimal output. |
| **References**   1. Stackoverflow.com |