# ENGR142 Grade Report: Exam 1 Q15

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|---|---|---|---|
| **Name** | Kathryn Atherton | **Total Points Earned** | 12.0 |
| **Team** | 45 | **Total Points Possible** | 12 |
| **Grader** | Peter Jones | **Percentage Earned** | 100% |


| **Grading System Message(s)** | Individual Assignment Grade |
|---|---|

| **Does program:** | **Pass** | **Part.** | **Fail** |
|---|---|---|---|
| Have the correct file name? | **0** | NA | -0.5 |
| Have a header? | **0** | NA | -0.5 |
| Have a function prototype for myfun? | **1** | 0.5 | 0 |
| Include appropriate header file(s)? | **0.5** | 0.25 | 0 |
| Declare all variables appropriately? | **0.5** | 0.25 | 0 |
| Accept inputs for the starting point, ending point, and number of subintervals? | **0.5** | 0.25 | 0 |
| Have an appropriate conditional to check if the number of subintervals is positive? | **0.5** | 0.25 | 0 |
| Print an appropriate message if the number of subintervals is not positive? | **0.5** | 0.25 | 0 |
| Have an appropriate conditional to check if the ending value is bigger than the starting value? | **0.5** | 0.25 | 0 |
| Print an appropriate message if the ending value is smaller than the starting value? | **0.5** | 0.25 | 0 |
| Have an appropriate loop (or equivalent structure) to iterate over each subinterval? | **1** | 0.5 | 0 |
| Correclty compute the integral value over the subinterval? | **1** | 0.5 | 0 |
| Correctly sum up the integral contributions from each subinterval? | **1** | 0.5 | 0 |
| Correctly adjust the integral value based upon the subinterval size? | **0.5** | 0.25 | 0 |
| Output the integral value in the correct format? | **1** | 0.5 | 0 |
| Define a function myfun() that correctly returns the cube of the argument? | **1** | 0.5 | 0 |
| **Subtotal** | **####** | **of** | **10** |

| **Test Case 1** | | | | |
|---|---|---|---|---|
| **Input** | **Output** | **Pass** | **Part.** | **Fail** |
| a = 0.0<br>b = 1.0<br>n = 2 | The value of the integral is 0.25 | **1** | NA | 0 |

| **Test Case 1** | | | | |
|---|---|---|---|---|
| **Input** | **Output** | **Pass** | **Part.** | **Fail** |
| a = 0.0<br>b = -1.0<br>n = 3 | The ending point value must be greater than the starting point value. | **0.5** | NA | 0 |

| **Test Case 1** | | | | |
|---|---|---|---|---|
| **Input** | **Output** | **Pass** | **Part.** | **Fail** |
| a = 1.0<br>b = 3.0<br>n = -2 | Number of subintervals must be positive. | **0.5** | NA | 0 |
| | **Subtotal** | **2.0** | **of** | **2** |

| **Total** | **12 of 12** |
|---|---|

| **Grader Comments** |
|---|
| Well Done! |