# SYDE 121 – Digital Computation – Lab #2

1) **Final value of the\_int: -42**

**Final value of the\_double: 0**

**Entering an invalid input into the\_double will lead it to giving a ‘0’ value**

2) F**inal value of the\_int: 35**

**Final value of the\_double: 0**

**Entering letters after an integer value will force the\_int to take in the valid input and store the invalid response to the\_double**

**3) Final value of the\_int: 100**

**Final value of the\_double: 0**

**Entering an invalid input ‘,’ will force the\_int to take everything before ‘,’ and store the invalid response to the\_double**

**4) Final value of the\_int: 876**

**Final value of the\_double: 543**

**Entering a space in the middle of an input with valid integers will force the\_int to take the values before the space and store the remaining values after the space into the\_double**

**5) Final value of the\_int: 0**

**Final value of the\_double: 1.11111**

**In this case, there are only invalid inputs before the space which force the\_int variable to take 0 and lets the\_double know to skip the remain values after the space and keep its original value(1.111111)**

**6) Final value of the\_int: 12**

**Final value of the\_double: 0.3456**

**The output is as expected. The variable the\_int takes in the valid input before the decimal point and allows the\_double to take in the remaining valid values after the decimal point.**

**7) Final value of the\_int: 0**

**Final value of the\_double: 1.11111**

**The variable the\_int took in an invalid input and forced the\_double to keep its original value. \*Side Note: Entering 0.123 will give the\_int = 0 the\_double = .123**

**8) Final value of the\_int: 987654321**

**Final value of the\_double: 12345**

**The output is as expected. Bother values were compatible for both variables.**

**First Observation:**

**The the\_int will take the valid input before any invalid input such as a space, comma, letter, symbol, and will place the remaining value after the invalid response to the\_double if the remaining values are valid**

**Second Observation:**

**If the input for the\_int is not valid then it will equal to 0 and will force the\_double to take the skip the remaining values. The\_double can take int or double values.**