Unit Tests

* **Test 1 – Successfully convert number to text**

This test will show how the system successfully converts a given number to text. If the correct criteria are met, the second textbox will display the converted number as text.

**Assumption:** The system will successfully convert the given number to words.

**Test data:** Number – 506

1. Run the system.
2. Enter the test data in the text box labelled “Enter Amount” on the numbers to text section.
3. Click the “Convert Amount to Text” button

**Results:** The second text box displays the following text: “Five Hundred and Six Pounds”

* **Test 2 – Try to convert number with a decimal point to text**

This test will show what happens if a number with a decimal point is entered instead of a whole number.

**Assumption:** The system will catch an error.

**Test data:** Number – 506.38

1. Run the system.
2. Enter the test data in the text box labelled “Enter Amount” on the numbers to text section.
3. Click the “Convert Amount to Text” button

**Results:** The system caught an error.

**Next Steps:** Create a function that takes a decimal rather than an ‘Int’ and can successfully convert both whole numbers and decimals.

* **Test 3 – Successfully convert number with decimal to text**

This test will show how the system successfully converts a given number that contains a decimal to text. If the correct criteria are met, the second textbox will display the converted number as text.

**Assumption:** The system will successfully convert the given number to words.

**Test data:** Number – 506.38

1. Run the system.
2. Enter the test data in the text box labelled “Enter Amount” on the numbers to text section.
3. Click the “Convert Amount to Text” button

**Results:** The second text box displays the following text: “Five Hundred and Six Pounds and Thirty-Eight Pennies”.

* **Test 4 – Successfully convert text to number**

This test will show how the system successfully converts text to number. If the correct criteria are met, the second textbox will display the converted number as text.

**Assumption:** The system will successfully convert the words to the corresponding amount in numbers.

**Test data:** Words – Five Hundred and Six Pounds

1. Run the system.
2. Enter the test data in the text box labelled “Enter Amount” on the text to numbers section.
3. Click the “Convert Amount to Numbers” button

**Results:** The second text box displays the following text: “506.0”

* **Test 5 – Try to convert lower case text to number**

This test will show what happens when the system tries to convert lowercase text to number.

**Assumption:** The system will catch an error sue to there being no match for the lowercase versions of the words (e.g., “Hundred” != “hundred”).

**Test data:** Words – five hundred and six pounds

1. Run the system.
2. Enter the test data in the text box labelled “Enter Amount” on the text to numbers section.
3. Click the “Convert Amount to Numbers” button

**Results:** The system caught an error because the words were not recognised.

**Next Steps:** Write code which converts the text to title case which will then be recognised and matched by the system.

* **Test 5 – Successfully convert uneven case text to number**

This test will successfully convert uneven case text to number.

**Assumption:** The system will convert the text to the corresponding amount in numbers (e.g., “hUnDrEd” == “hundred”).

**Test data:** Words – five HUNDRED aNd six POUnds

1. Run the system.
2. Enter the test data in the text box labelled “Enter Amount” on the text to numbers section.
3. Click the “Convert Amount to Numbers” button

**Results:** The second text box displays the following text: “506.0”