

## I. Basic Case Conversion (Lower to Upper and Vice Versa)

### Test 1: Simple Lowercase to Uppercase:

Input: “αβγδεζηθικλμνξοπρστυφχψω”

Expected Output (Uppercase): “ΑΒΓΔΕΖΗΘΙΚΑΜΝΞΟΙΠΡΣΤΥΦΧΨΩ”

Purpose: Check the basic lowercase to uppercase conversion for all letters.

OTpanel

Output: ΑΒΓΔΕΖΗΘΙΚΑΜΝΞΟΙΠΡΣΤΥΦΧΨΩ(no language selected)

Output: ΑΒΓΔΕΖΗΘΙΚΑΜΝΞΟΙΠΡΣΤΥΦΧΨΩ(language Greek activated)

TypeMenu

Output: ΑΒΓΔΕΖΗΘΙΚΑΜΝΞΟΙΠΡΣΤΥΦΧΨΩ(no language selected)

Output: ΑΒΓΔΕΖΗΘΙΚΑΜΝΞΟΙΠΡΣΤΥΦΧΨΩ(language Greek activated)

### Test 2: Simple Uppercase to Lowercase:

Input: “ΑΒΓΔΕΖΗΘΙΚΑΜΝΞΟΙΠΡΣΤΥΦΧΨΩ”

Expected Output (Lowercase): “αβγδεζηθικλμνξοπρστυφχψω”

Purpose: Check the basic uppercase to lowercase conversion for all letters.

OTpanel

Output: ΑΒΓΔΕΖΗΘΙΚΑΜΝΞΟΙΠΡΣΤΥΦΧΨΩ(no language selected)

Output: ΑΒΓΔΕΖΗΘΙΚΑΜΝΞΟΙΠΡΣΤΥΦΧΨΩ(language Greek activated)

TypeMenu

Output: αβγδεζηθικλμνξοπρστυφχψω(no language selected)

Output: αβγδεζηθικλμνξοπρστυφχψω(language Greek activated)

### Test 3: Mixed Case:

Input: “ΑβΓδεΖΗΘικΛμΝξΟπΡστΥφΧΨω”

Expected Output (Uppercase): “ΑΒΓΔΕΖΗΘΙΚΑΜΝΞΟΙΠΡΣΤΥΦΧΨΩ”

Expected Output (Lowercase): “αβγδεζηθικλμνξοπρστυφχψω”

Purpose: Test mixed input to both all caps and all lowercase.

OTpanel

Output (Uppercase): ΑΒΓΔΕΖΗΘΙΚΑΜΝΞΟΙΠΡΣΤΥΦΧΨΩ(no language selected)

Output (Lowercase): ΑβΓδεΖΗΘικΛμΝξΟπΡστΥφΧΨω(no language selected)

Output (Uppercase): ΑΒΓΔΕΖΗΘΙΚΑΜΝΞΟΙΠΡΣΤΥΦΧΨΩ(language Greek activated)

Output (Lowercase): ΑβΓδεΖΗΘικΛμΝξΟπΡστΥφΧΨω(language Greek activated)

TypeMenu

Output (Uppercase): ΑΒΓΔΕΖΗΘΙΚΑΜΝΞΟΙΠΡΣΤΥΦΧΨΩ(no language selected)

Output (Lowercase): αβγδεζηθικλμνξοπρστυφχψω(no language selected)

Output (Uppercase): ΑΒΓΔΕΖΗΘΙΚΑΜΝΞΟΙΠΡΣΤΥΦΧΨΩ(language Greek activated)

Output (Lowercase): αβγδεζηθικλμνξοπρστυφχψω(language Greek activated)

## II. Sigma Handling (Final vs. Non-Final)

### Test 4: Non-Final Sigma to Uppercase (Simple Word):

Input: “συνάελφος”

Expected Output (Uppercase): “ΣΥΝΑΔΕΛΦΟΣ”

Purpose: Check the ‘σ’ to ‘Σ’ conversion in a word with no final sigma.

OTpanel

Output: ΣΥΝΑΔΕΛΦΟΣ(no language selected)

Output: ΣΥΝΑΔΕΛΦΟΣ(language Greek activated)

TypeMenu

Output: ΣΥΝΑΔΕΛΦΟΣ(no language selected)

Output: ΣΥΝΑΔΕΛΦΟΣ(language Greek activated)

### Test 5: Final Sigma to Uppercase in multi word string:

Input: “Ένας καλός κόσμος είναι εδώ”

Expected Output (Uppercase): “ΕΝΑΣ ΚΑΛΟΣ ΚΟΣΜΟΣ ΕΙΝΑΙ ΕΔΩ”

Purpose: Test sigma conversion when it is at the end of a word inside a string of words.

OTpanel

Output: ΕΝΑΣ ΚΑΛΟΣ ΚΟΣΜΟΣ ΕΙΝΑΙ ΕΔΩ (no language selected)

Output: ΕΝΑΣ ΚΑΛΟΣ ΚΟΣΜΟΣ ΕΙΝΑΙ ΕΔΩ (language Greek activated)

TypeMenu

Output: ΕΝΑΣ ΚΑΛΟΣ ΚΟΣΜΟΣ ΕΙΝΑΙ ΕΔΩ (no language selected)

Output: ΕΝΑΣ ΚΑΛΟΣ ΚΟΣΜΟΣ ΕΙΝΑΙ ΕΔΩ (language Greek activated)

#### Test 6: Final Sigma to Lowercase:

Input: “ΣΑΣ”

Expected Output (Lowercase): “σας”

Purpose: Test that uppercase sigma converts back to lowercase final sigma if in the last letter of the word.

OTpanel

Output: ΣΑΣ (no language selected)

Output: ΣΑΣ (language Greek activated)

TypeMenu

Output: σας (no language selected)

Output: σας (language Greek activated)

#### Test 7: Multiple Sigmas in a Word (Mixed Cases):

Input: “Συσσεμιατώσεις”

Expected Output (Uppercase): “ΣΥΣΣΟΜΑΙΩΣΕΙΣ”

Expected Output (Lowercase): “συσσεμιατώσεις”

Purpose: Verify handling of multiple sigmas, in particular in lowercase.

OTpanel

Output (Uppercase): ΣΥΣΣΟΜΑΙΩΣΕΙΣ (no language selected)

Output (Lowercase): Συσσεμιατώσεις (no language selected)

Output (Uppercase): ΣΥΣΣΟΜΑΙΩΣΕΙΣ (language Greek activated)

Output (Lowercase): Συσσεμιατώσεις (language Greek activated)

TypeMenu

Output (Uppercase): ΣΥΣΣΟΜΑΙΩΣΕΙΣ (no language selected)

Output (Lowercase): συσσεμιατώσεις (no language selected)

Output (Uppercase): ΣΥΣΣΟΜΑΙΩΣΕΙΣ (language Greek activated)

Output (Lowercase): συσσεμιατώσεις (language Greek activated)

#### Test 8: Final Sigma Before a Punctuation:

Input: “Ο καιρός ήταν καλός.”

Expected Output (Uppercase): “Ο ΚΑΙΡΟΣ ΉΤΑΝ ΚΑΛΟΣ.”

Purpose: Check that a final sigma will properly change in uppercase even if it is followed by a punctuation

OTpanel

Output: Ο ΚΑΙΡΟΣ ΉΤΑΝ ΚΑΛΟΣ. (no language selected)

Output: Ο ΚΑΙΡΟΣ ΉΤΑΝ ΚΑΛΟΣ. (language Greek activated)

TypeMenu

Output: Ο ΚΑΙΡΟΣ ΉΤΑΝ ΚΑΛΟΣ. (no language selected)

Output: ο καιρός ήταν καλός. (language Greek activated)

#### Test 9: Final Sigma Before/After a Punctuation:

Input: “Ο ΚΑΙΡΟΣ ΉΤΑΝ ΚΑΛΟΣ.”

Expected Output (Lowercase): “Ο καιρός ήταν καλός.”

Purpose: Check that a final sigma will properly change in uppercase even if it is followed by a punctuation

Updated Tests (with Corrections)

OTpanel

Output: Ο ΚΑΙΡΟΣ ΉΤΑΝ ΚΑΛΟΣ. (no language selected)

Output: Ο ΚΑΙΡΟΣ ΉΤΑΝ ΚΑΛΟΣ. (language Greek activated)

TypeMenu

Output: ο καιρος ηταν καλος. (no language selected)

Output: ο **κα**ιρος ηταν **κα**λος. (language Greek activated)

### III. Accents Handling (Correct – No Changes)

Test 10: Lowercase Accented Vowels to Uppercase (All Accents):

Input: “ἄέήϊόύώ”

Expected Output (Uppercase): “ΑΕΙΗΙΟΥΩ”

Purpose: Verify accents are removed on uppercase conversion of fully uppercase text.

OTpanel

Output: ΑΕΙΗΙΟΥΩ (no language selected)

Output: ΑΕΙΗΙΟΥΩ (language Greek activated)

TypeMenu

Output: ΑΕΙΗΙΟΥΩ (no language selected)

Output: ΑΕΙΗΙΟΥΩ (language Greek activated)

Test 11: Uppercase to Lowercase with Accents:

Input: “ΑΕΙΗΙΟΥΩ”

Expected Output (Lowercase): “αεηιουω”

Purpose: Verify accents are NOT added back when converting to lowercase.

OTpanel

Output: ΑΕΙΗΙΟΥΩ (no language selected)

Output: ΑΕΙΗΙΟΥΩ (language Greek activated)

TypeMenu

Output: αεηιουω (no language selected)

Output: αεηιουω (language Greek activated)

Test 12: Title Case with Accented First Letter:

Input: “Άλφα”

Expected Output (Title Case – First Letter Uppercase): “Άλφα”

Purpose: Check that title case does not strip out the accent.

TypeMenu

Output: Άλφα (no language selected)

Output: Άλφα (language Greek activated)

Test 13: Title case when accented letter is not first:

Input: “πολύ”

Expected Output (Title case): “Πολύ”

Purpose: Check that title case does not add accents in subsequent letters.

TypeMenu

Output: Πολύ (no language selected)

Output: Πολύ (language Greek activated)

Test 14: Title case when uppercase letter is not the first:

Input: “Άλφα”

Expected Output (Title Case): “Άλφα”

Purpose: Check that title case preserves accent if it exists in uppercase and the first letter of the word.

TypeMenu

Output: Άλφα (no language selected)

Output: Άλφα (language Greek activated)

Test 15: Accented word in sentence:

Input: “Αυτό είναι το σωστό”

Expected Output (Title case): “Αυτό Είναι Το Σωστό”

Purpose: Test that title case properly handles accented first letters when multiple words are present.

TypeMenu

Output: Αυτό Είναι Το Σωστό (no language selected)

Output: Αυτό Είναι Το Σωστό (language Greek activated)



#### TypeMenu

Output (Uppercase): ΑΒΓΔΕΖΗΘΙΚΑΜΝΞΟΠΡΣΤΥΦΧΨΩΪΥ (no language selected)

Output (Lowercase): αβγδζηθυκλμνξόπρστυφχψώϊϋ (no language selected)

Output (Uppercase): ΑΒΓΔΕΖΗΘΙΚΑΜΝΞΟΙΠΡΣΤΥΦΧΨΩΪΥ (language Greek activated)

Output (Lowercase): αβγδζηθυκλμνξόπρστυφχψώϊϋ (language Greek activated)

Test 21: A sentence with all edge cases included:

Input: "Ο καλλιτέχνης έδωσε το έργο με στυλ ίου."

Expected Output (Uppercase): "Ο ΚΑΛΛΙΤΕΧΝΗΣ ΕΔΩΣΕ ΤΟ ΕΡΓΟ ΜΕ ΣΤΥΛ ΙΟΥ."

Expected Output (Title Case): "Ο Καλλιτέχνης Έδωσε Το Έργο Με Στυλ Ίου."

Purpose: A real world sentence that covers most of the cases we are testing.

#### OTpanel

Output (Uppercase): Ο ΚΑΛΛΙΤΕΧΝΗΣ ΕΔΩΣΕ ΤΟ ΕΡΓΟ ΜΕ ΣΤΥΛ ΙΟΥ (no language selected)

Output (Lowercase): Ο καλλιτέχνης έδωσε το έργο με στυλ ίου (no language selected)

Output (Uppercase): Ο ΚΑΛΛΙΤΕΧΝΗΣ ΕΔΩΣΕ ΤΟ ΕΡΓΟ ΜΕ ΣΤΥΛ ΙΟΥ (language Greek activated)

Output (Lowercase): Ο καλλιτέχνης έδωσε το έργο με στυλ ίου (language Greek activated)

#### TypeMenu

Output (Uppercase): Ο ΚΑΛΛΙΤΕΧΝΗΣ ΕΔΩΣΕ ΤΟ ΕΡΓΟ ΜΕ ΣΤΥΛ ΙΟΥ (no language selected)

Output (Lowercase): ο καλλιτέχνης έδωσε το έργο με στυλ ίου (no language selected)

Output (Uppercase): Ο ΚΑΛΛΙΤΕΧΝΗΣ ΕΔΩΣΕ ΤΟ ΕΡΓΟ ΜΕ ΣΤΥΛ ΙΟΥ (language Greek activated)

Output (Lowercase): ο καλλιτέχνης έδωσε το έργο με στυλ ίου (language Greek activated)