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| --- | --- | --- | --- | --- | --- | --- |
| **Program**  **or module:** | *Manipulations* | **Save As manipulations\_test\_cases.xlsx** | |  |  |  |
| **Version 1** |  |  |  |  | **Run by:**  **Date:** | ***FENIL 04-08-2022*** |
| **Description** | **+ / − Purpose** | **Data Input** | **Expected result** | **Actual result**  **if unexpected** | **Result** | **Comments** |
| Nominal check | + to check output with correct input in starting range | Strings- Fenil ,Soni | Fenil Soni | Same as expected | PASS |  |
| Empty inputs | + check output with no input | Strings- \n,\n | "Empty" | Same as expected | PASS |  |
| Numeric inputs | + to check output with inputs as integers | Strings- 123,456 | 123456 | Same as expected | PASS |  |
| Nominal check | - check output with input above the range | Strings- ffffffffffffffffeeeeeeeeeeeeeeeeeennnnnnnnnnnnnnnnnnnniiiiiiiiiiiiiiiiiiiiiiiilllllllllllllllllllllllll | ffffffffffffffffeeeeeeeeeeeeeeeeeennnnnnnnnnnnnnnnnnnniiiiiiiiiiiiiiiiiiiiiiiilllllllllllllllllllllllll | ERROR-ffffffffffffffffeeeeeeeeeeeeeeeeeennnnnnnnnnnnnnnnnnnniiiiiiiiiiiiiiiiiiiiiiiilllllllllllllllllllllllll | FAIL | Input string too big,stack over flow(Expand the string length of the output string) |
| Edge case | + to check output with input as edge of the input array | Strings- ABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNO,123 | ABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNO123 | Same as expected | PASS |  |
| Float inputs | + to check output with input as float value | Strings-1.2,2.4 | 1.22.4 | Same as expected | PASS |  |
| Float inputs | + to check output with only one input as float value | Strings--1.2245 ,\n | -1.2245 | Same as expected | PASS |  |
| Nominal check | + to check output with input as diiferent symbols | Strings-!@#%,^&\*() | !@#$%^&\*() | Same as expected | PASS |  |
| Exit input | + to quit the flow without any inputs. | strings-q | direct end the code | Same as expected | PASS |  |

**INPUT/OUTPUT:**

\*\*\* start of Concatenating Strings Demo \*\*\*

Type the 1st string (q - to quit) :

Fenil

Type the 2nd string:

Soni

Concatenated string is 'Fenil Soni'

Type the 1st string (q - to quit) :

Type the 2nd string:

Concatenated string is ''

Type the 1st string (q - to quit) :

123

Type the 2nd string:

456

Concatenated string is '123456'

Type the 1st string (q - to quit) :

ffffffffffffffffeeeeeeeeeeeeeeeeeennnnnnnnnnnnnnnnnnnniiiiiiiiiiiiiiiiiiiiiiiilllllllllllllllllllllllll

Type the 2nd string:

\*\*\* buffer overflow detected \*\*\*

Type the 1st string (q - to quit) :

ABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNO

Type the 2nd string:

123

Concatenated string is 'ABCDEFGHIJKLMNOPQRSTUVWXYZABCDEFGHIJKLMNO123'

Type the 1st string (q - to quit) :

1.2

Type the 2nd string:

2.4

Concatenated string is '1.22.4'

Type the 1st string (q - to quit) :

1.2245

Type the 2nd string:

Concatenated string is '1.2245'

Type the 1st string (q - to quit) :

!@#$%

Type the 2nd string:

^&\*()

Concatenated string is '!@#$%^&\*()'

Type the 1st string (q - to quit) :

q

\*\*\* End of Concatenating strings Demo \*\*\*