<u>Input:</u> String   <u>Output:</u> integer value
                                of string passed
                                in

<u>Examples:</u>
'246'   ' '   'abc'   '4.6'
  ↓   ↓   ↓   ↓
 246   Invalid   Invalid   Invalid
           Input   Input   Input

'-35'   "9'52'7"   "00041"
  ↓   ↓   ↓
 35   Invalid   41

<u>Logic</u>
1). Check if string is a valid string
    → Check if empty
    → Check if contains valid characters
    → if is negative convert to

2). have a counter to add the decimal
    #'s and traverse the string in
    reverse

Python

```
def String_to_integer (input):
    if not input:
        return 'Invalid Input'
    if not check_characters (input):      ← Checks
        return 'Invalid Input'              if all
                                            the chars
    #Check if has negative                  in the
    if input [0] == '-' :                   string
        input = input [1:]                  are valid
    sum=0 ; decimal_value =1
    for char in reverse (input):
        sum += char * decimal_value
        decimal_value *= 10

    return sum
```