## Pylint initial logs:

\*\*\*\*\*\*\* Module hw2\_debugging hw2 debugging.py:4:0: C0325: Unnecessary parens after 'if' keyword (superfluous-parens) hw2 debugging.py:25:0: C0303: Trailing whitespace (trailing-whitespace) hw2 debugging.py:36:0: C0305: Trailing newlines (trailing-newlines) hw2 debugging.py:1:0: C0114: Missing module docstring (missing-module-docstring) hw2 debugging.py:3:0: C0116: Missing function or method docstring (missing-function-docstring) hw2 debugging.py:3:0: C0103: Function name "mergeSort" doesn't conform to snake case naming style (invalid-name) hw2 debugging.py:3:14: W0621: Redefining name 'arr' from outer scope (line 31) (redefined-outer-name) hw2\_debugging.py:11:0: C0116: Missing function or method docstring (missing-function-docstring) hw2 debugging.py:11:14: C0103: Argument name "leftArr" doesn't conform to snake case naming style (invalid-name) hw2 debugging.py:11:23: C0103: Argument name "rightArr" doesn't conform to snake case naming style (invalid-name) hw2 debugging.py:12:4: C0103: Variable name "leftIndex" doesn't conform to snake case naming style (invalid-name) hw2\_debugging.py:13:4: C0103: Variable name "rightIndex" doesn't conform to snake\_case naming style (invalid-name) hw2 debugging.py:14:4: C0103: Variable name "mergeArr" doesn't conform to snake case naming style (invalid-name) hw2 debugging.py:17:12: C0103: Variable name "rightIndex" doesn't conform to snake case naming style (invalid-name) hw2 debugging.py:20:12: C0103: Variable name "leftIndex" doesn't conform to snake case naming style (invalid-name) Your code has been rated at 3.75/10 Pylint final logs: Your code has been rated at 10.00/10 (previous run: 6.25/10, +3.75) Pyright logs: added 1 package, and audited 2 packages in 3s

```
found 0 vulnerabilities
0 errors, 0 warnings, 0 informations
Autopen8 Log
```

```
Autopep8 Log:
,,,,,,,
This function sorts arrays of numbers using merge sort technique
import rand
def merge_sort(arr):
  Merge Sort
  if len(arr) == 1:
     return arr
  half = len(arr)//2
  return recombine(merge_sort(arr[:half]), merge_sort(arr[half:]))
def recombine(left_arr, right_arr):
  Merge Sort helper
  left index = 0
  right_index = 0
  merge_arr = [None] * (len(left_arr) + len(right_arr))
  while left index < len(left arr) and right index < len(right arr):
     if left_arr[left_index] < right_arr[right_index]:</pre>
       right index += 1
        merge_arr[left_index + right_index] = left_arr[left_index]
     else:
        left index += 1
        merge arr[left index + right index] = right arr[right index]
  for i in range(right index, len(right arr)):
     merge arr[left index + right index] = right arr[i]
  for i in range(left index, len(left arr)):
     merge_arr[left_index + right_index] = left_arr[i]
```

```
return merge_arr

arr_in = rand.random_array([None] * 20)
arr_out = merge_sort(arr_in)

print(arr_out)
```

Github repository link: <a href="https://github.com/NCSU-SE-Fall-2024/SE-Fall-2024-HW-2.git">https://github.com/NCSU-SE-Fall-2024/SE-Fall-2024-HW-2.git</a>