## **SECURE CODING CSE2010**

## 19BCN7034

# Working with memory vulnerabilities

#### **TASK**

Download and install visual studio (recent edition)

Write a C++ code of your own to build an executable and run the same.

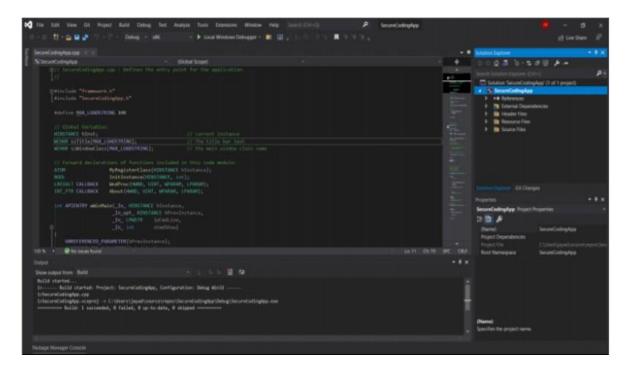
Download process explorer and verify the DEP & ASLR status

Enable software DEP, ASLR and SEH in the visual studio and rebuild the same executable

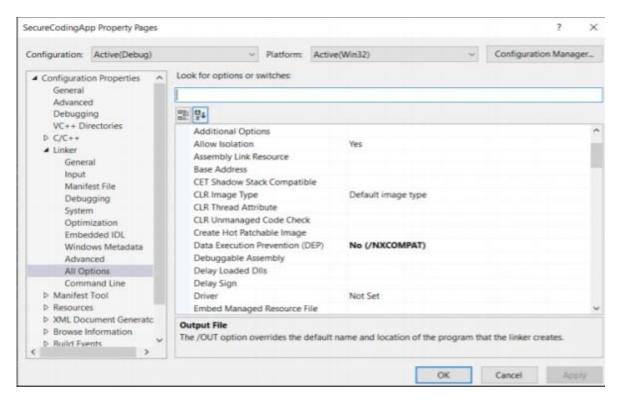
Again, verify the DEP & ASLR status in the process explorer

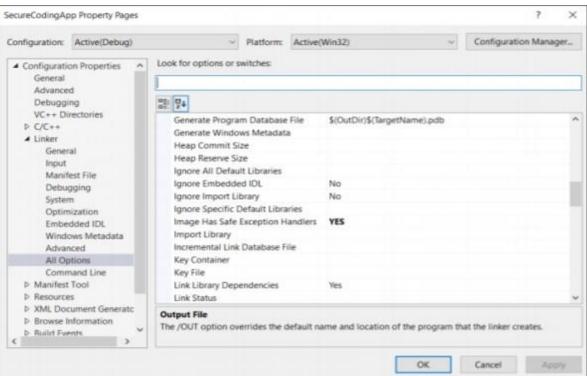
Report the same with separate screenshot - before and after enabling DEP & ASLR.

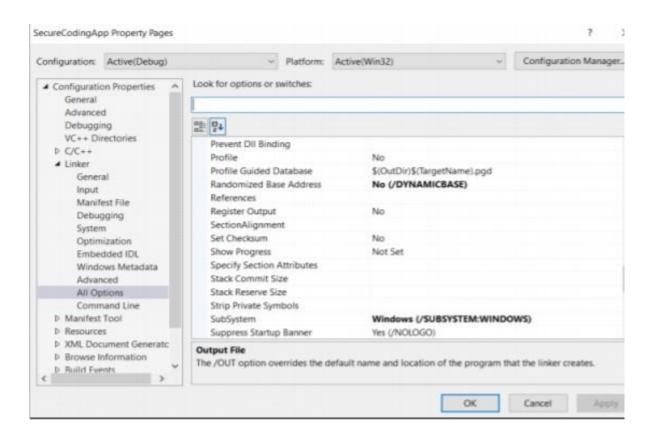
### Building the executable



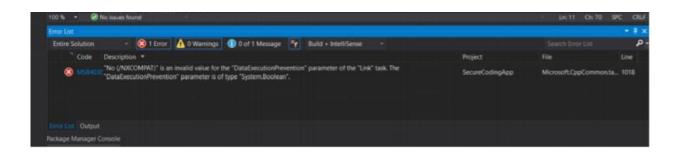
#### Disabling DEP and ASLR



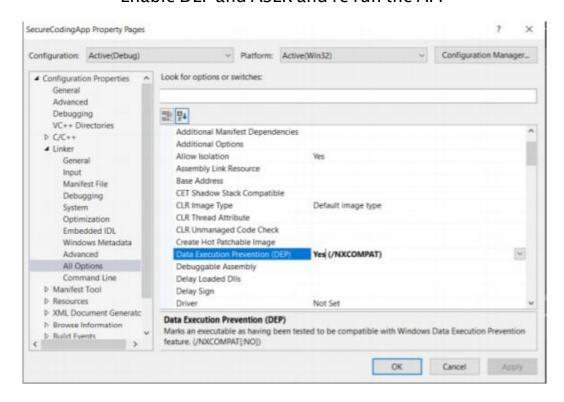


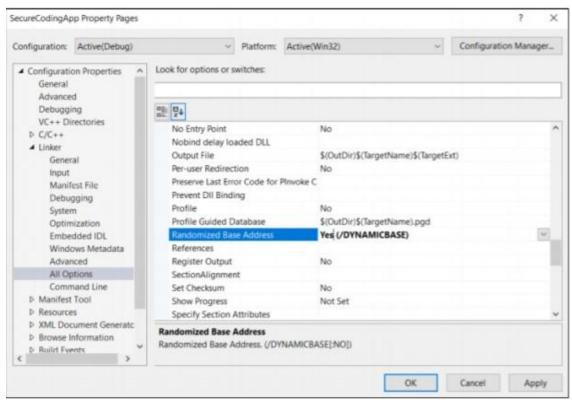


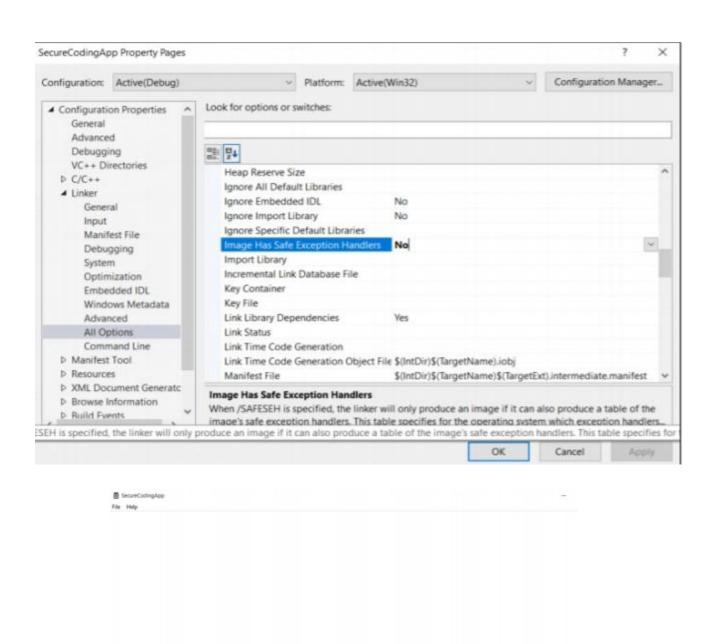
Build failed, exe not generated



#### Enable DEP and ASLR and re run the APP







It works as supposed to

#### Process explorer

