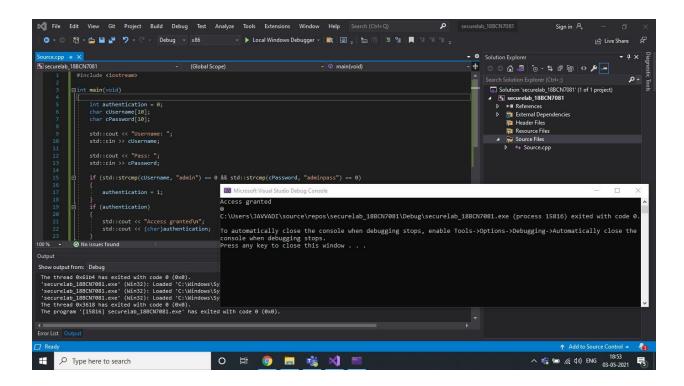
Secure Coding Lab-11

HEMANTH MORAMPUDI 18BCE7181 L39+L40

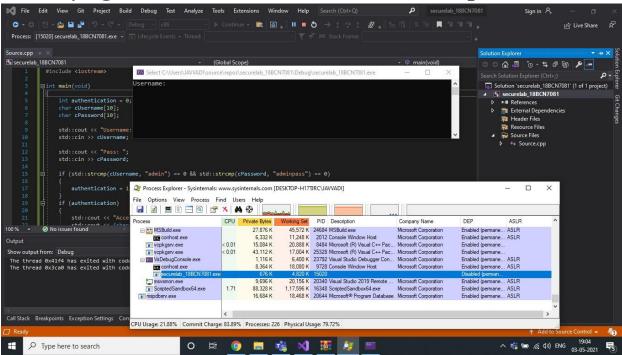
Lab experiment – Creating secure and safe executable

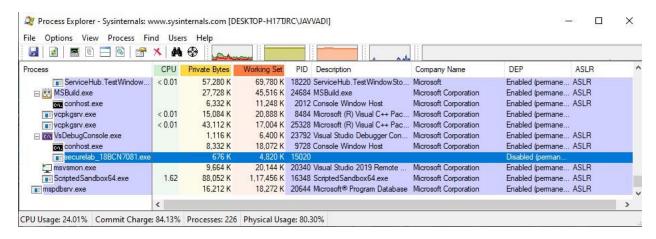
1) C++ Code & building the Executable

```
#include <iostream>
int main(void) { int
authentication = 0; char
cUsername[10]; char
cPassword[10];
     std::cout << "Username: ";</pre>
     std::cin >> cUsername;
     std::cout << "Pass: ";</pre>
     std::cin >> cPassword;
     if (std::strcmp(cUsername, "admin") == 0 &&
std::strcmp(cPassword, "adminpass") == 0)
     { authentication = 1;
     } if (authentication) { std::cout <<</pre>
     "Access granted\n"; std::cout <<
     (char) authentication;
     } else { std::cout << "Wrong username and</pre>
     password\n";
     } return
     (0); }
```



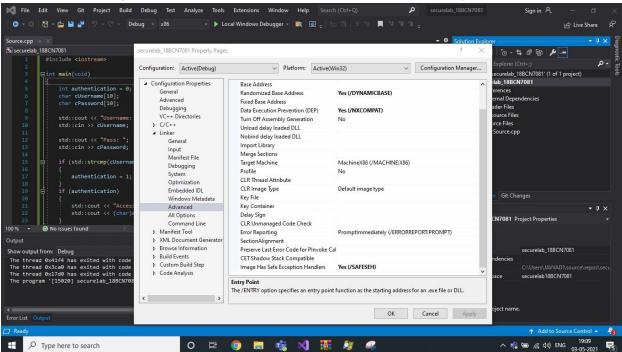
2) Verifying the DEP & ASLR status in Process Explorer

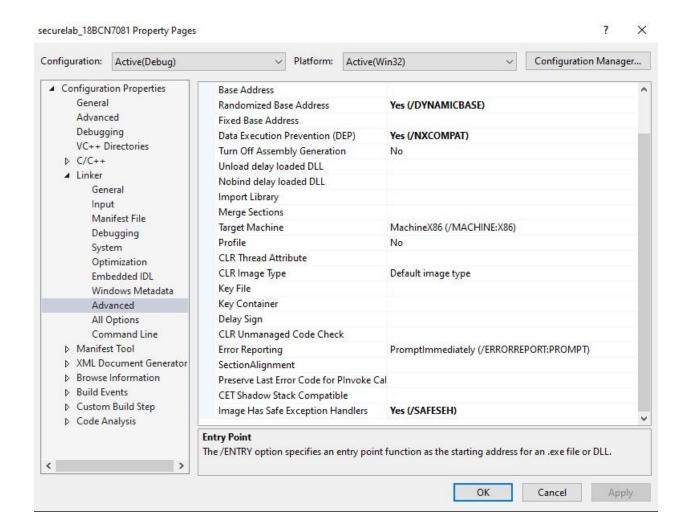




You can see DEP disabled & No ASLR.

3) Rebuilding the same executable After enabling DEP & ASLR





As you can see, I have enabled DEP, ASLR, SEH above.

I have Rebuilded my project and run the same and we can verify the status of DEP, ASLR, SEH.

4) Verifying the DEP & ASLR status in Process Explorer after enabling

