# Secure Coding Lab-11

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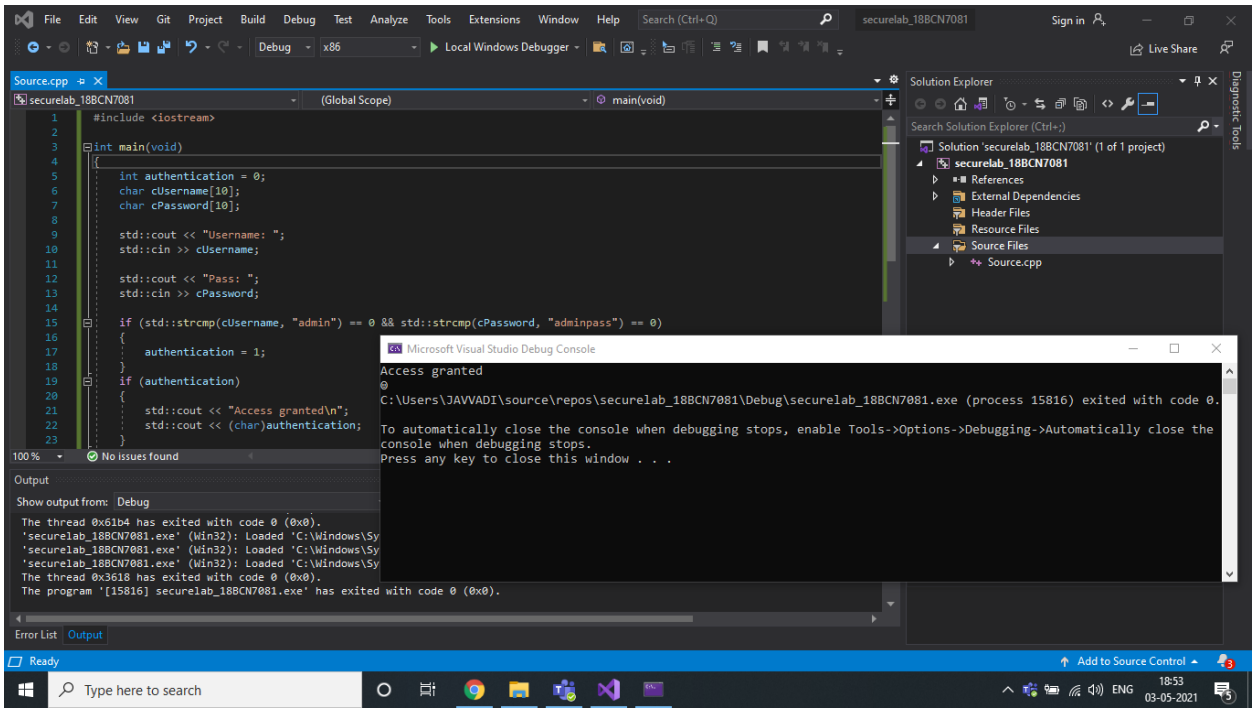
## Lab experiment – Creating secure and safe executable

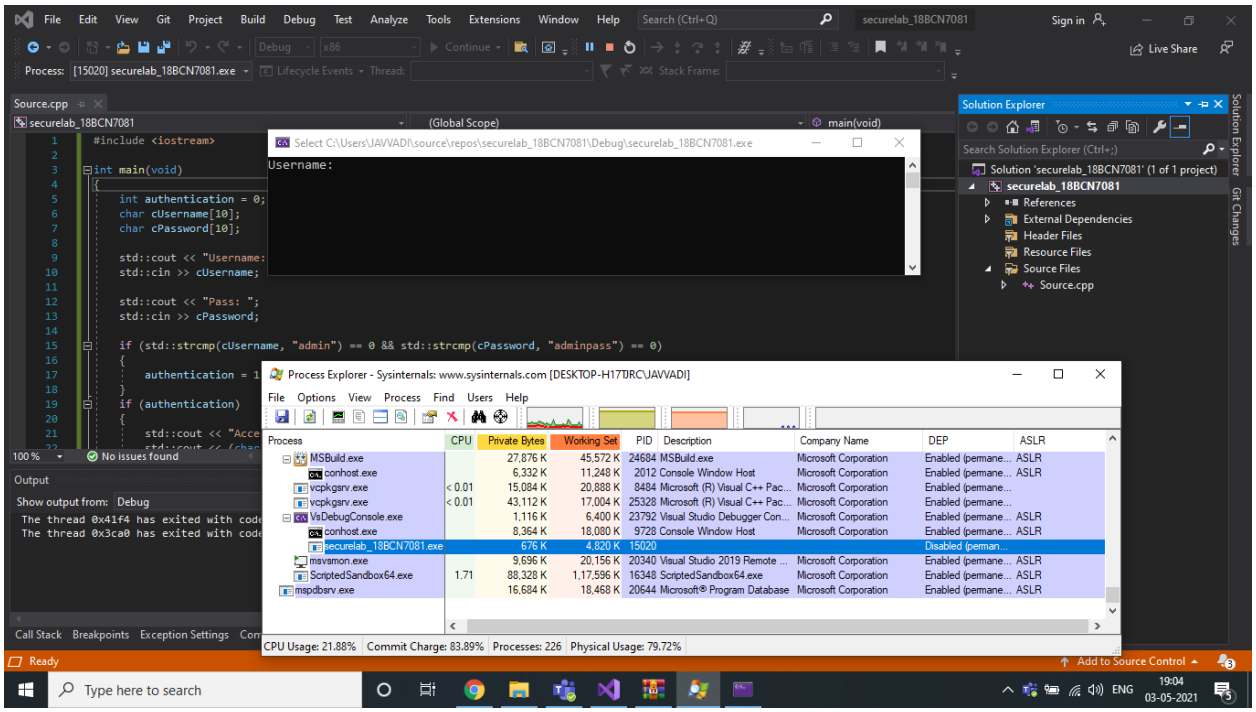
### 1) C++ Code & building the Executable

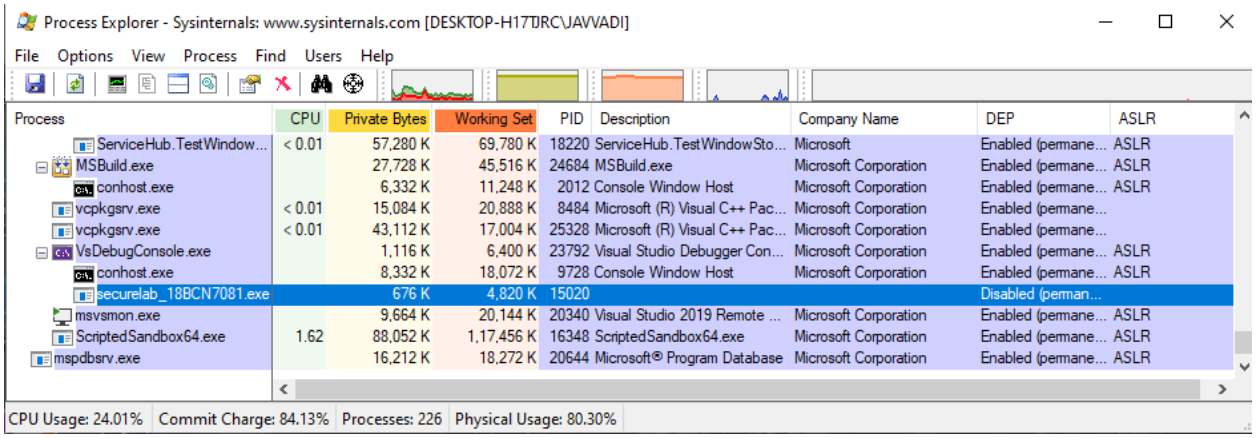
```
#include <iostream>

int main(void)
{
	int authentication = 0;
	char cUsername[10];
	char cPassword[10];

	std::cout << "Username: ";
	std::cin >> cUsername;

	std::cout << "Pass: ";
	std::cin >> cPassword;

	if (std::strcmp(cUsername, "admin") == 0 &&
std::strcmp(cPassword, "adminpass") == 0)
	{
		authentication = 1;
	}
	if (authentication)
	{
		std::cout << "Access granted\n";
		std::cout << (char)authentication;
	}
	else
	{
		std::cout << "Wrong username and password\n";
	}

	return (0);
```

}



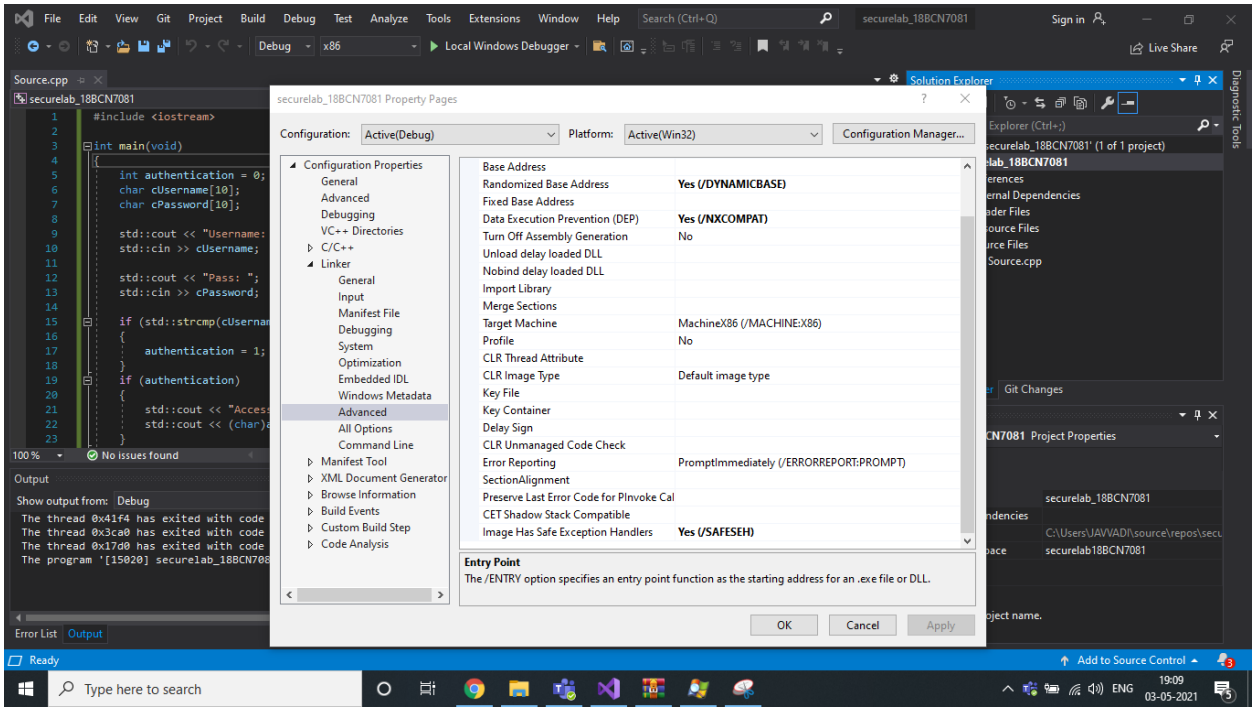

# 2) Verifying the DEP & ASLR status in Process Explorer

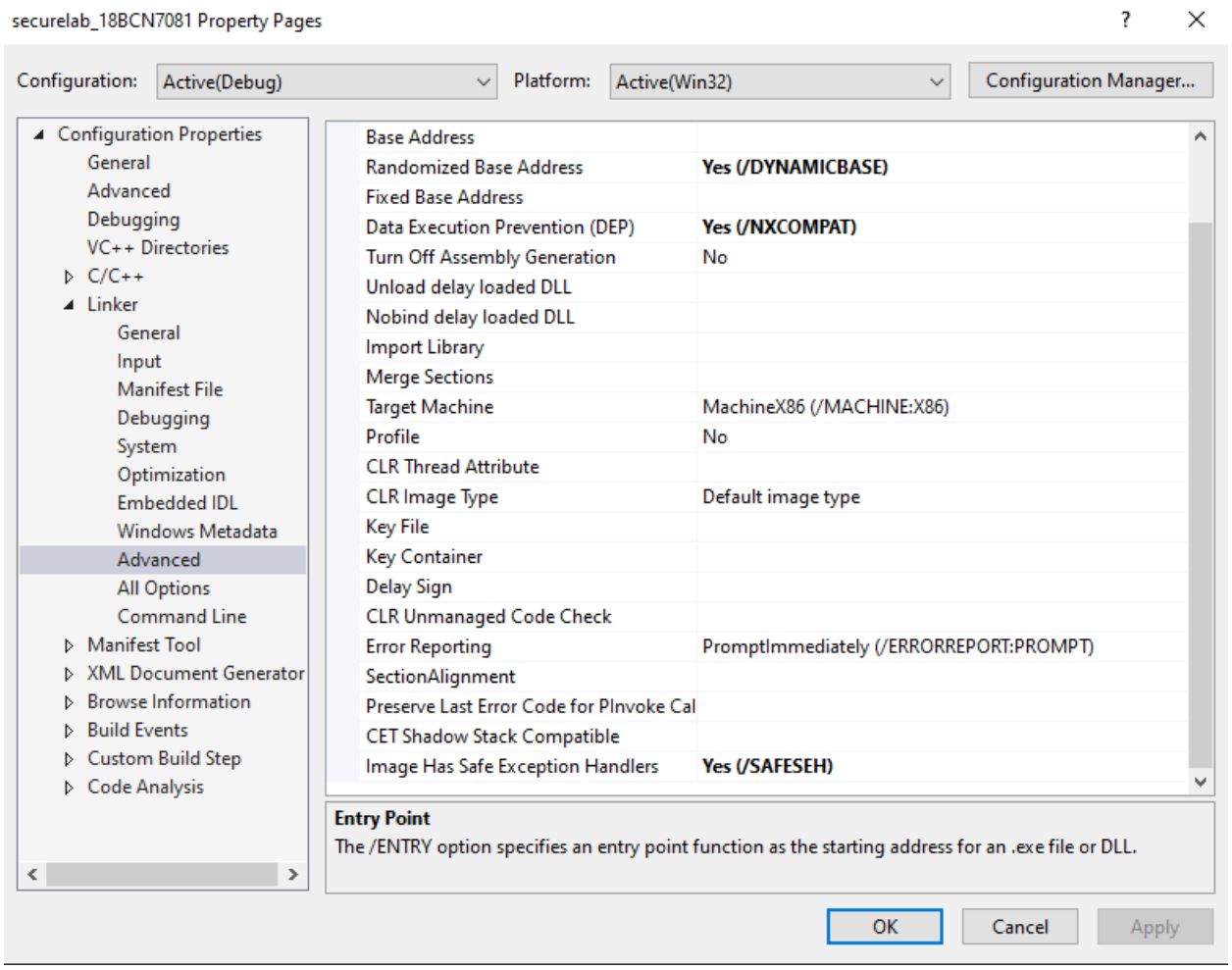





You can see DEP disabled & No ASLR.

# 3) Rebuilding the same executable After enabling DEP & ASLR

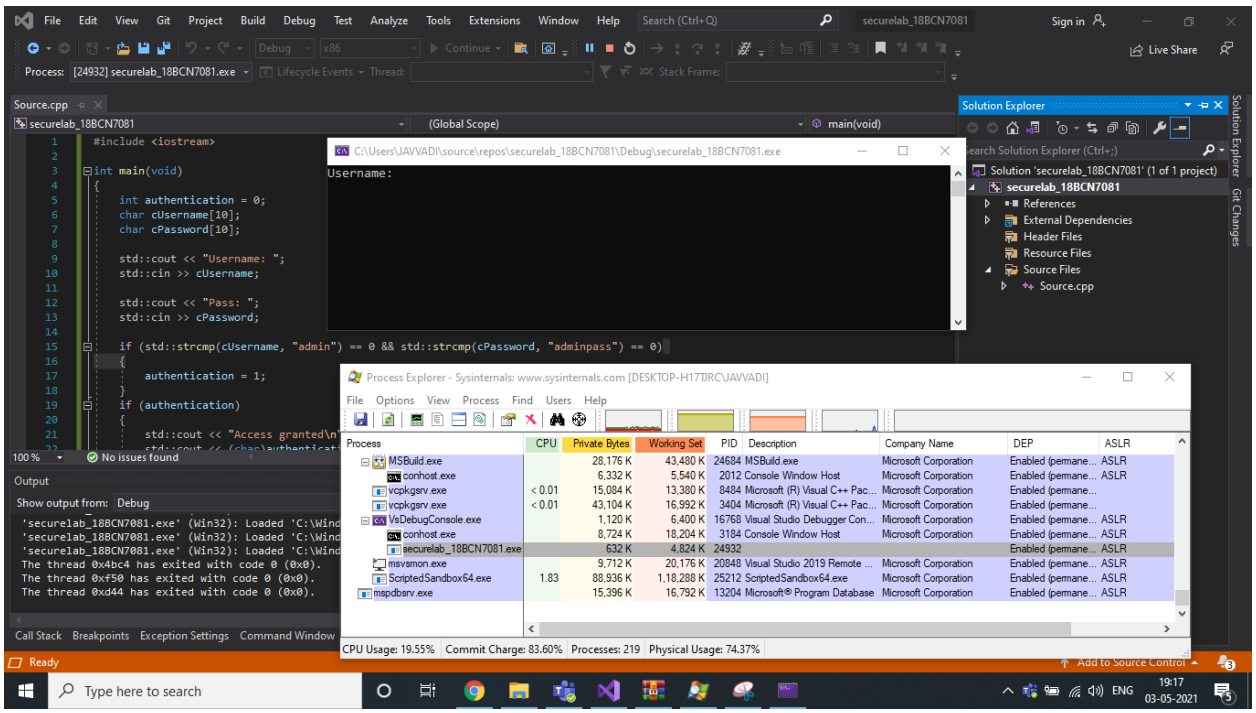


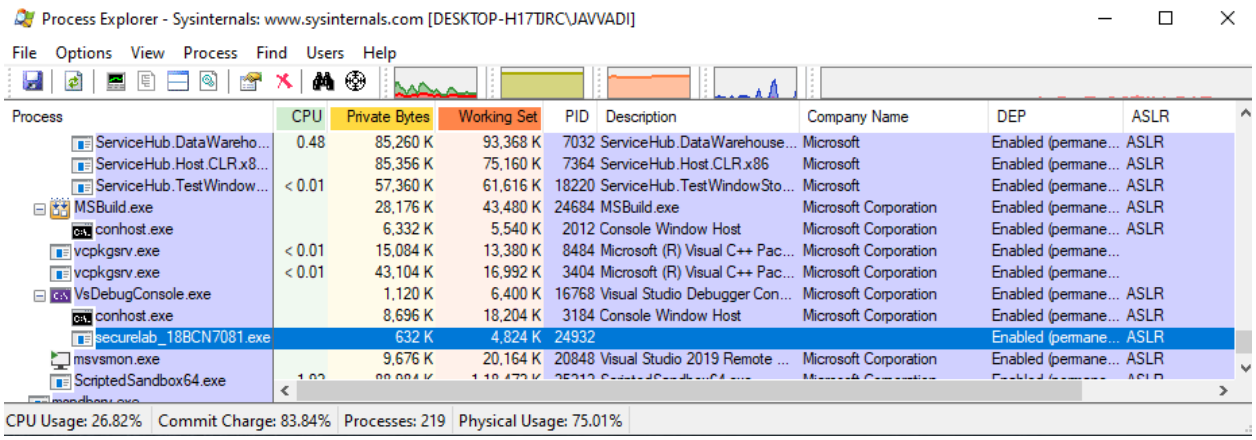



As you can see, I have enabled DEP, ASLR, SEH above.

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




Submitted
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