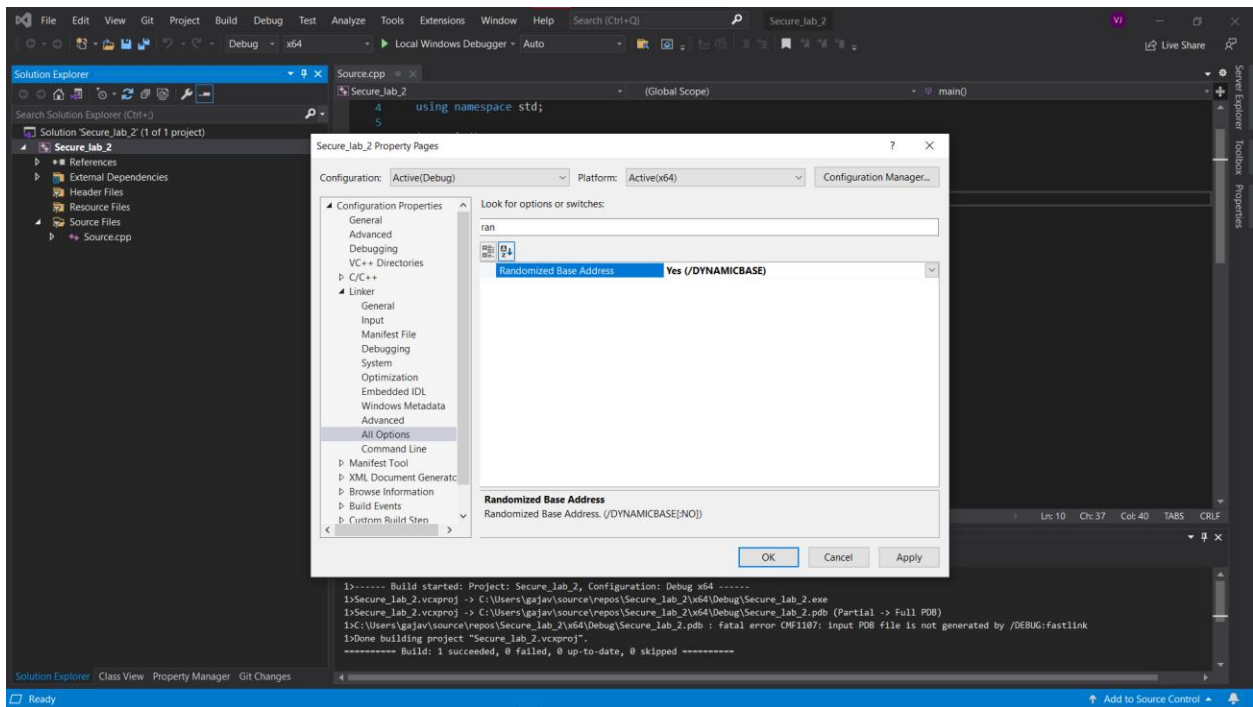


SECURE CODING LAB – 11

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```
Source.cpp + x
Secure_lab_2 (Global Scope) main()
1  #include <iostream>
2  #include <string>
3
4  using namespace std;
5
6  int main()
7  {
8
9      const string USERNAME = "Admin";
10     const string PASSWORD = "password";
11     string username, password;
12     bool user_validated = false;
13
14     do
15     {
16
17         cout << "Insert ID:";
18         cin >> username;
19
20         if (username.length() < 4)
21         {
22             cout << "Username length must be atleast 4 characters long.";
23         }
24         else
25         {
26             cout << "Insert ID password:";
27             cin >> password;
28
29             if (password.length() < 6)
30             {
31                 cout << "Password length must be atleast 6 characters long." << endl;
32             }
33             else
34             {
35
36                 if (username == USERNAME && password == PASSWORD)
37                 {
38                     cout << "User credentials are correct. Granting access" << endl;
```

In process explorer after enabling DEP, ASLR, SEH

SearchIndexer.exe	2,500 K	13,144 K	14,310	n/a	n/a
Secure_lab_2.exe	760 K	4,392 K	4188	Enabled (permanent)	ASLR
SecurityHealthService.exe	3,848 K	12,720 K	12232 Windows Security Health Ser...	Microsoft Corporation	n/a
SecurityHealthSystray.exe	1,772 K	8,320 K	12192 Windows Security notification ...	Microsoft Corporation	Enabled (permanent)