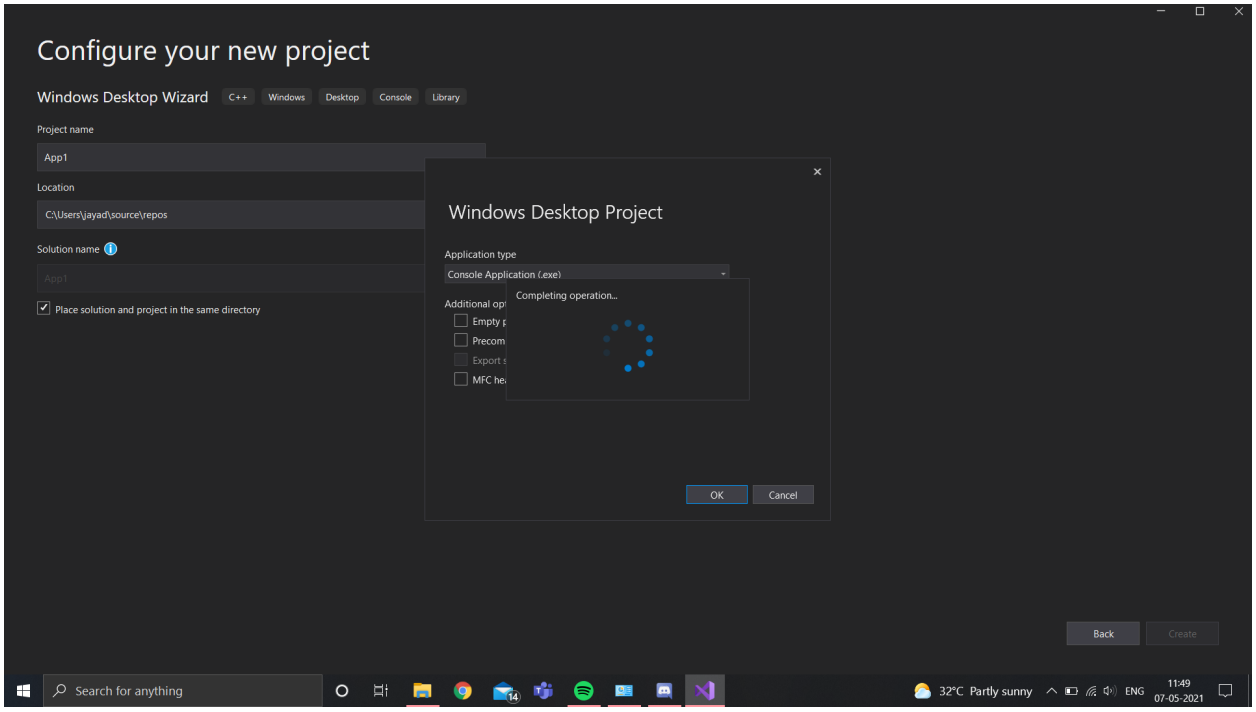
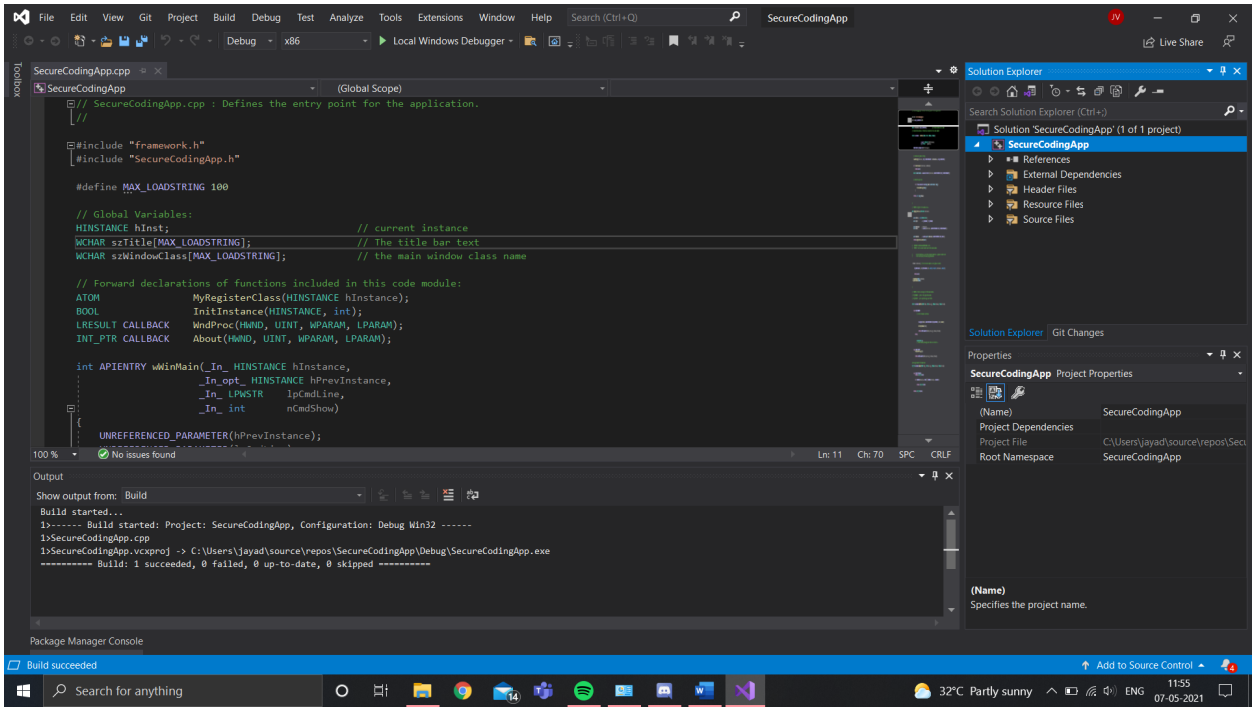
Secure Coding
Code-CSE2010
Lab-11

Name- Jayadeep Vinod
Registration number-18BCN7019
Date-24/04/2021
Slot- L23-L24

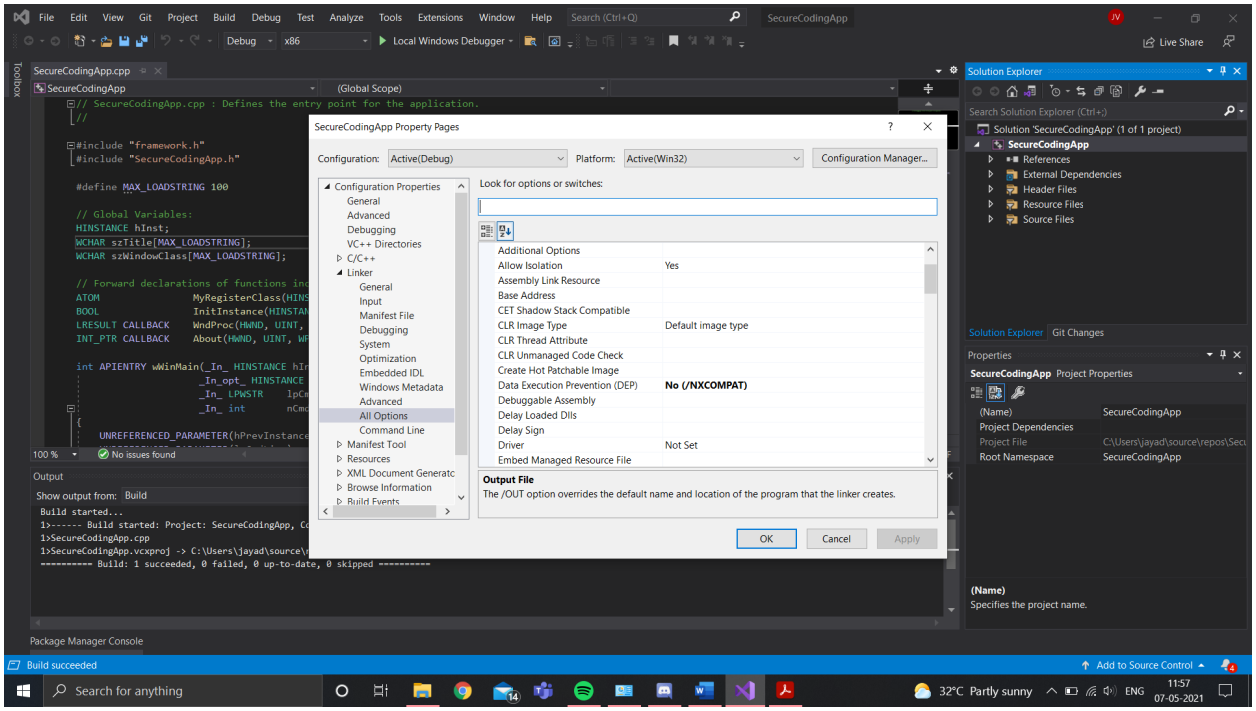
After installing Visual Studio-

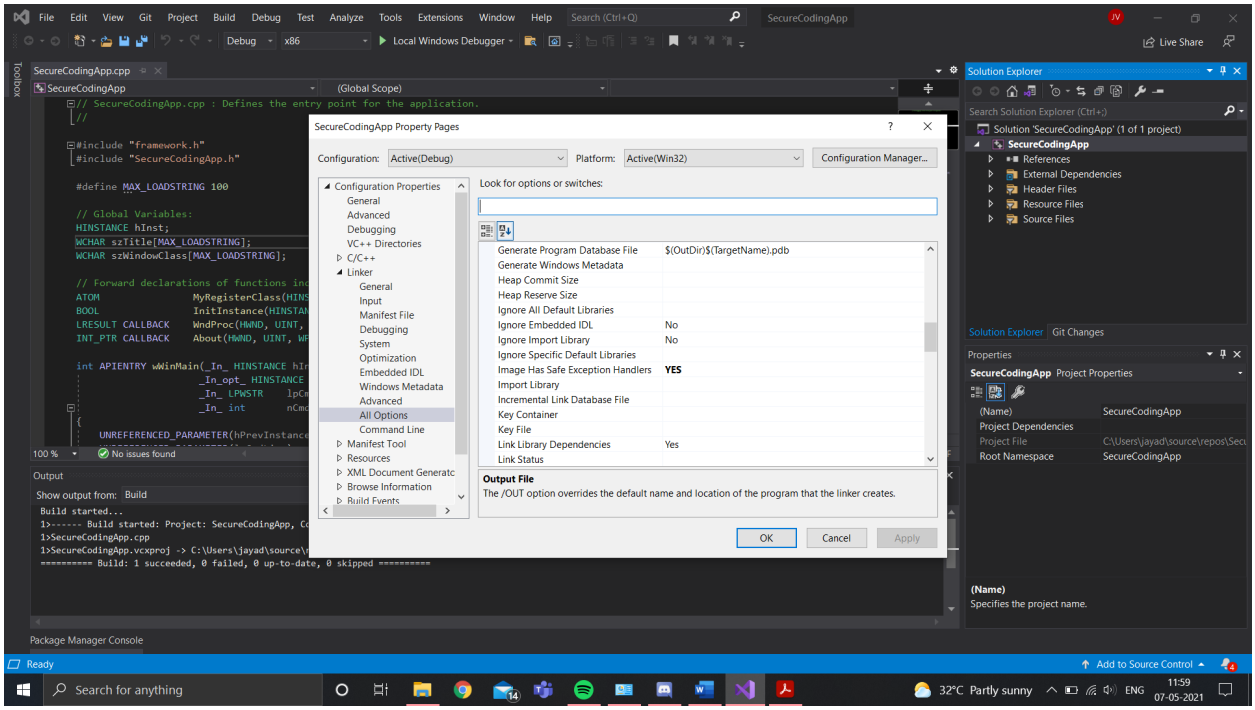


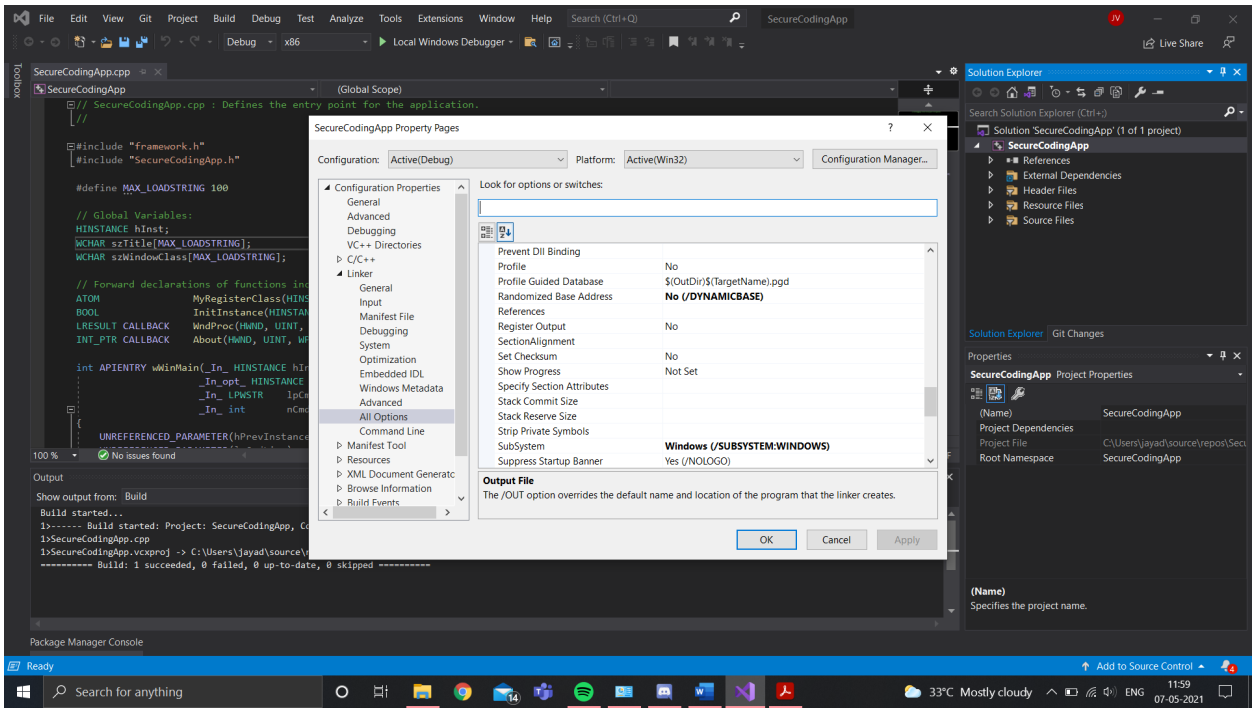
Generating .exe



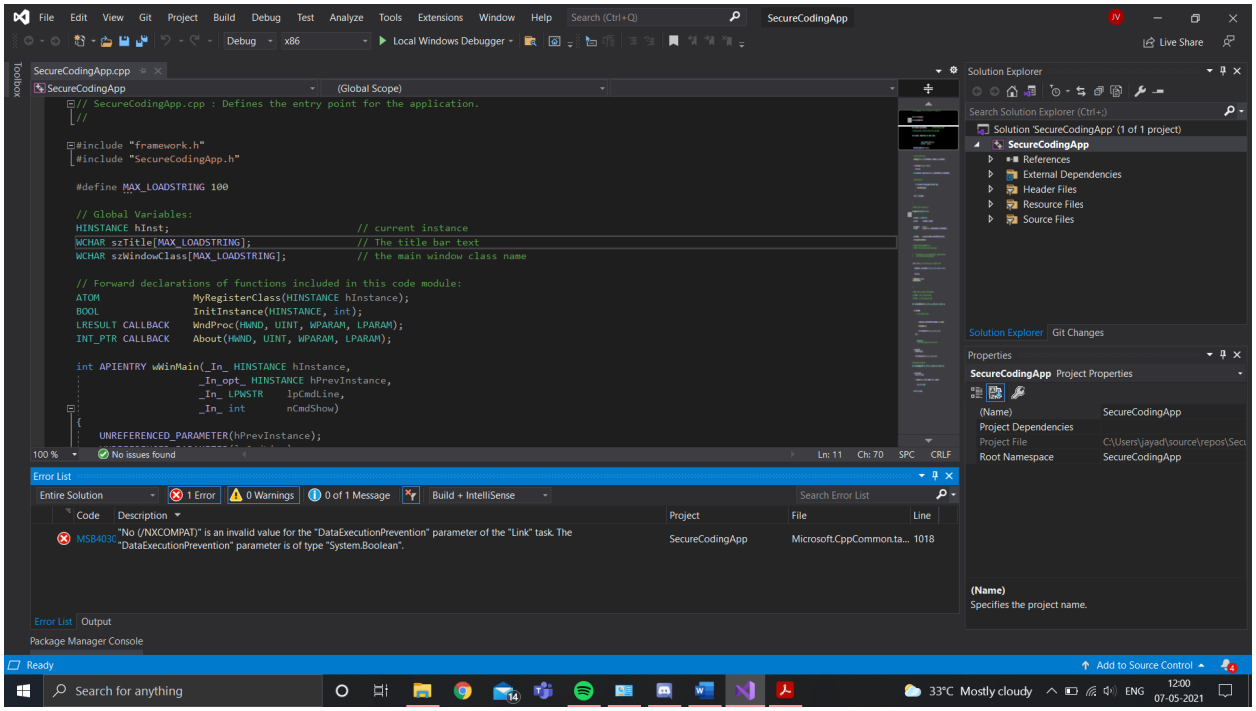
Disabling DER and ASLR



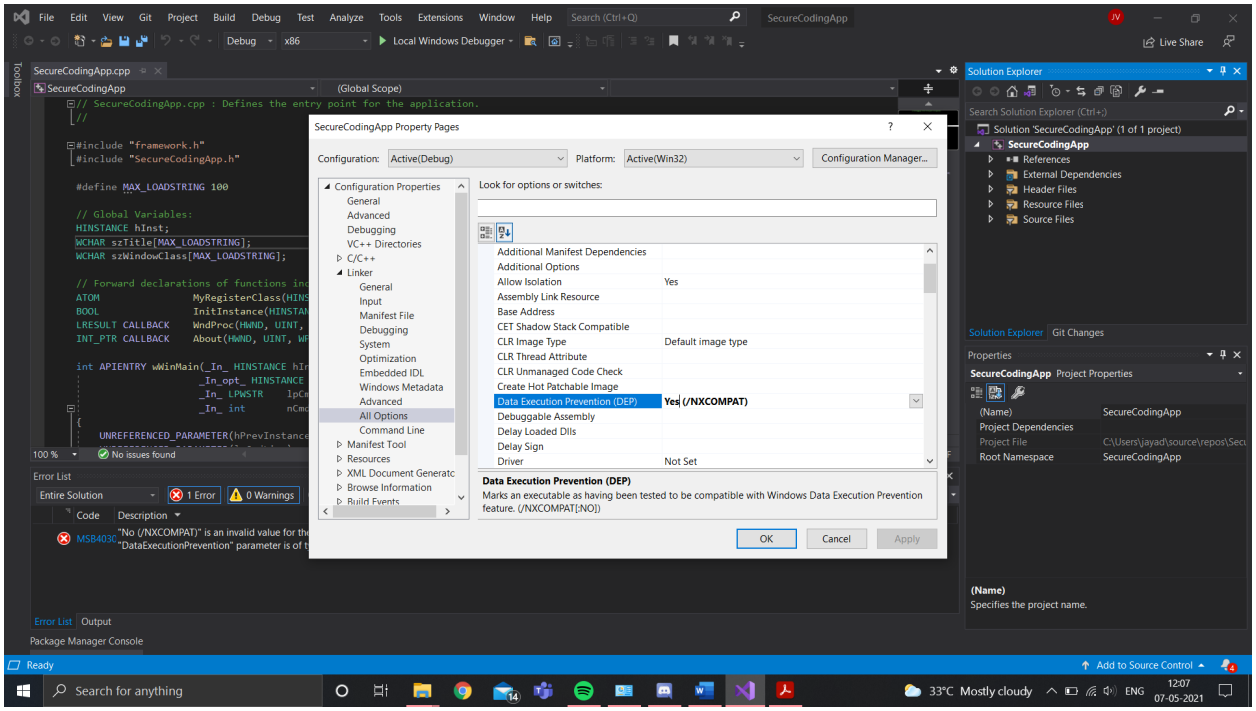

SecureCodingApp Property Pages
Configuration: Active(Debug)
Platform: Active(Win32)
Configuration Manager...
Look for options or switches:
Generate Program Database File $(OutDir)$(TargetName).pdb
Generate Windows Metadata
Heap Commit Size
Heap Reserve Size
Ignore All Default Libraries
Ignore Embedded IDL No
Ignore Import Library No
Ignore Specific Default Libraries
Image Has Safe Exception Handlers YES
Import Library
Incremental Link Database File
Key Container
Key File
Link Library Dependencies Yes
Link Status
Output File
The /OUT option overrides the default name and location of the program that the linker creates.
OK
Cancel
Apply

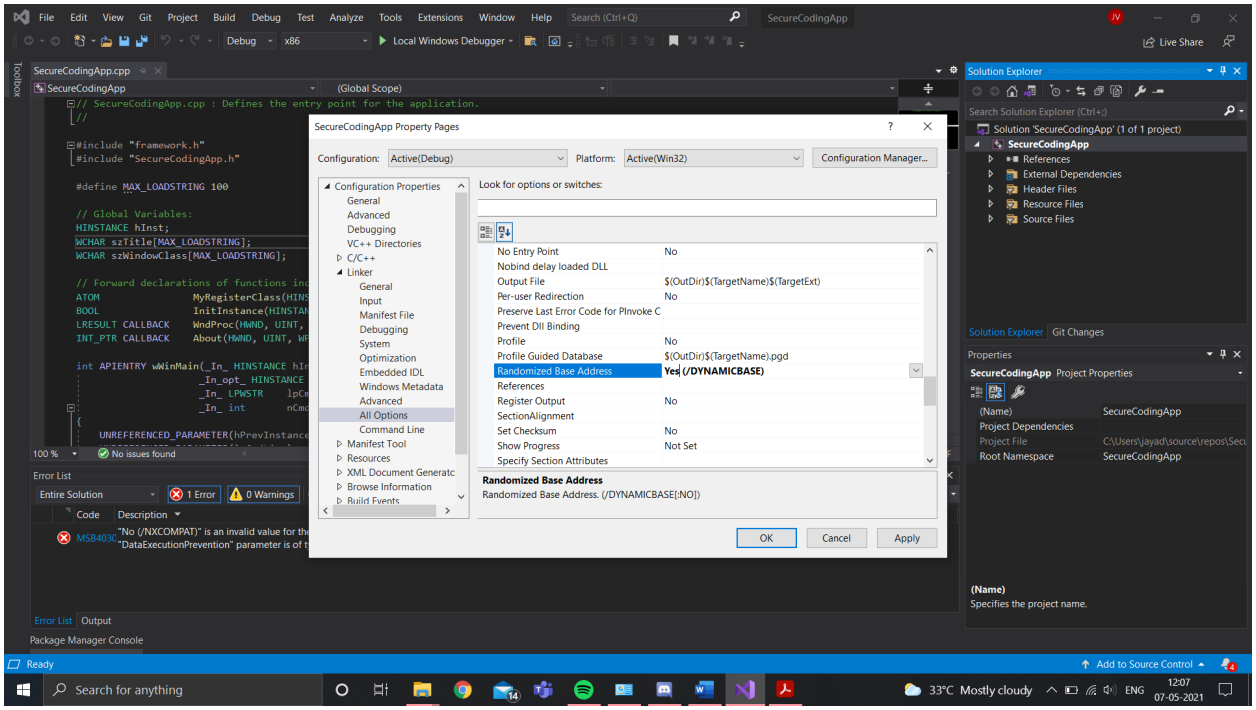

SecureCodingApp Property Pages
Configuration: Active(Debug)
Platform: Active(Win32)
Configuration Manager...
Look for options or switches:
Prevent Dll Binding
Profile No
Profile Guided Database $(OutDir)$(TargetName).pgd
Randomized Base Address No (/DYNAMICBASE)
References
Register Output No
SectionAlignment
Set Checksum No
Show Progress Not Set
Specify Section Attributes
Stack Commit Size
Stack Reserve Size
Strip Private Symbols
SubSystem Windows (/SUBSYSTEM:WINDOWS)
Suppress Startup Banner Yes (/NOLOGO)
Output File
The /OUT option overrides the default name and location of the program that the linker creates.
OK
Cancel
Apply

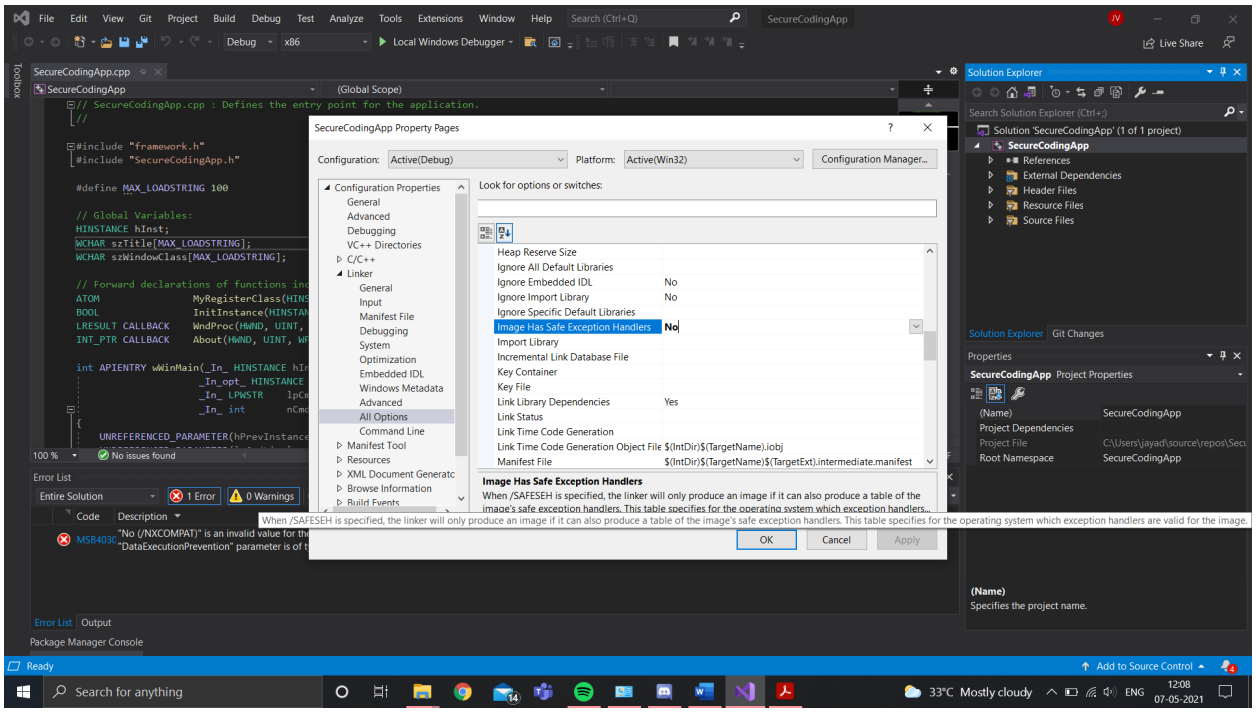
.exe file not created

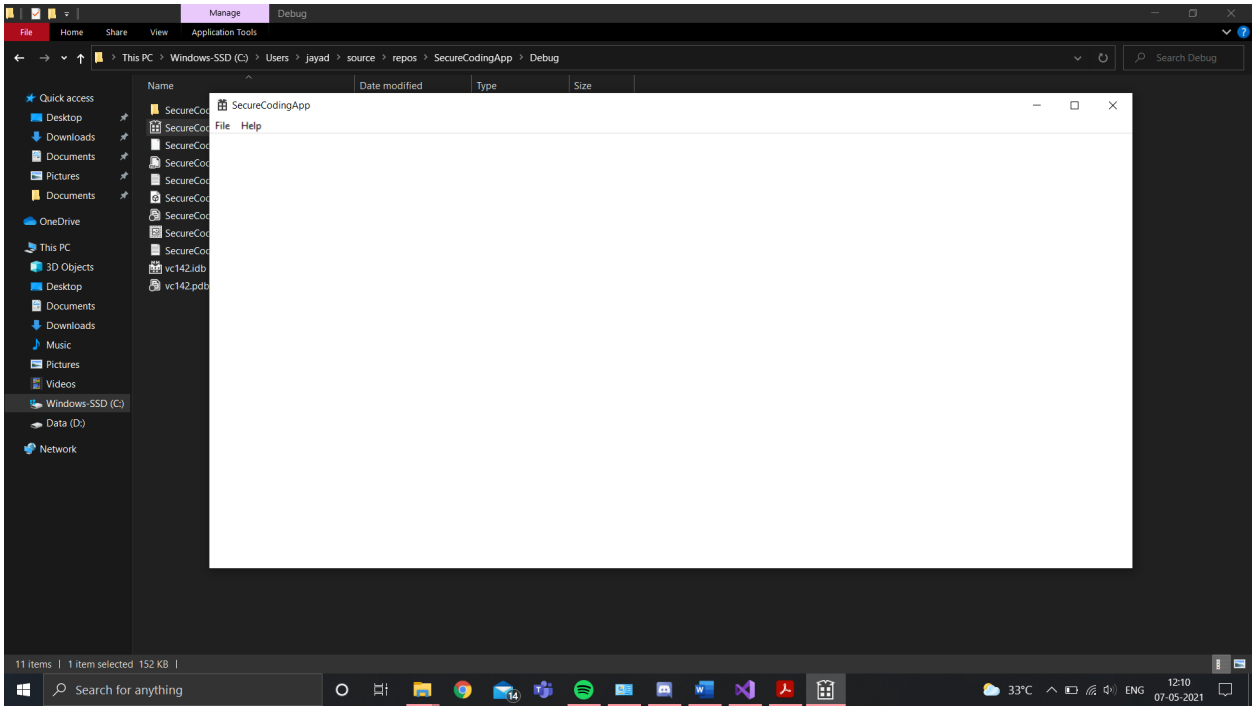


After enabling and running the app

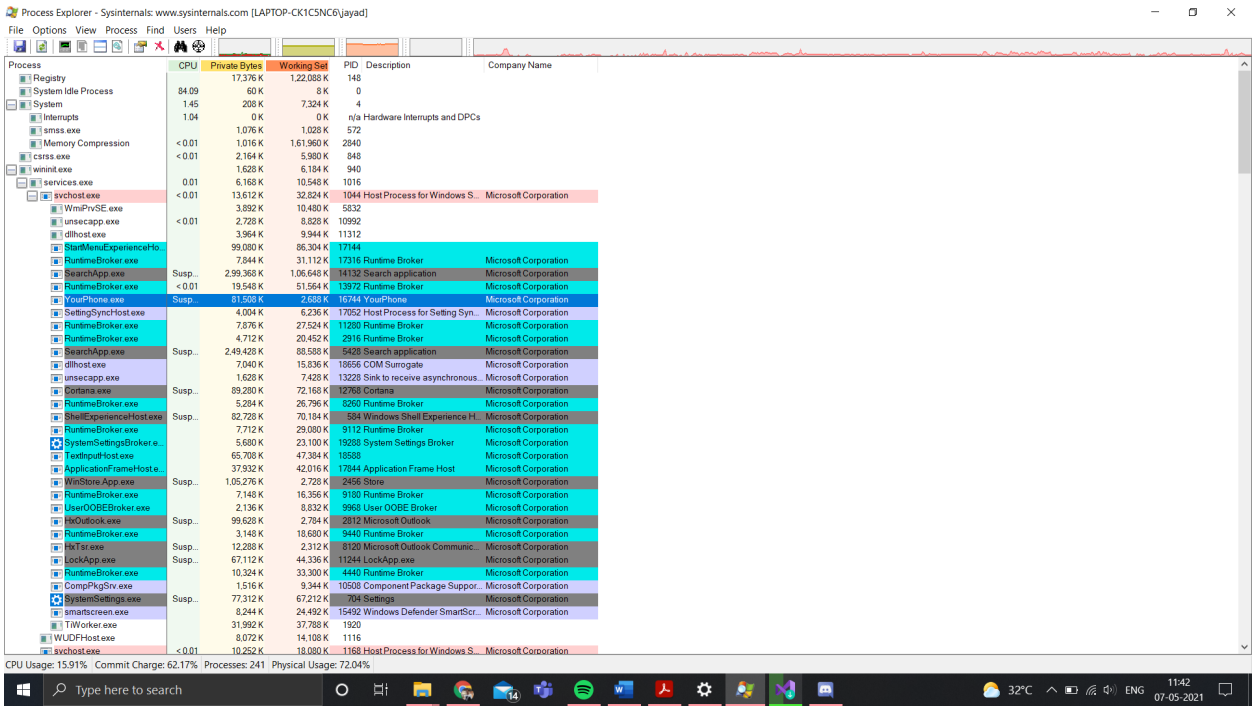


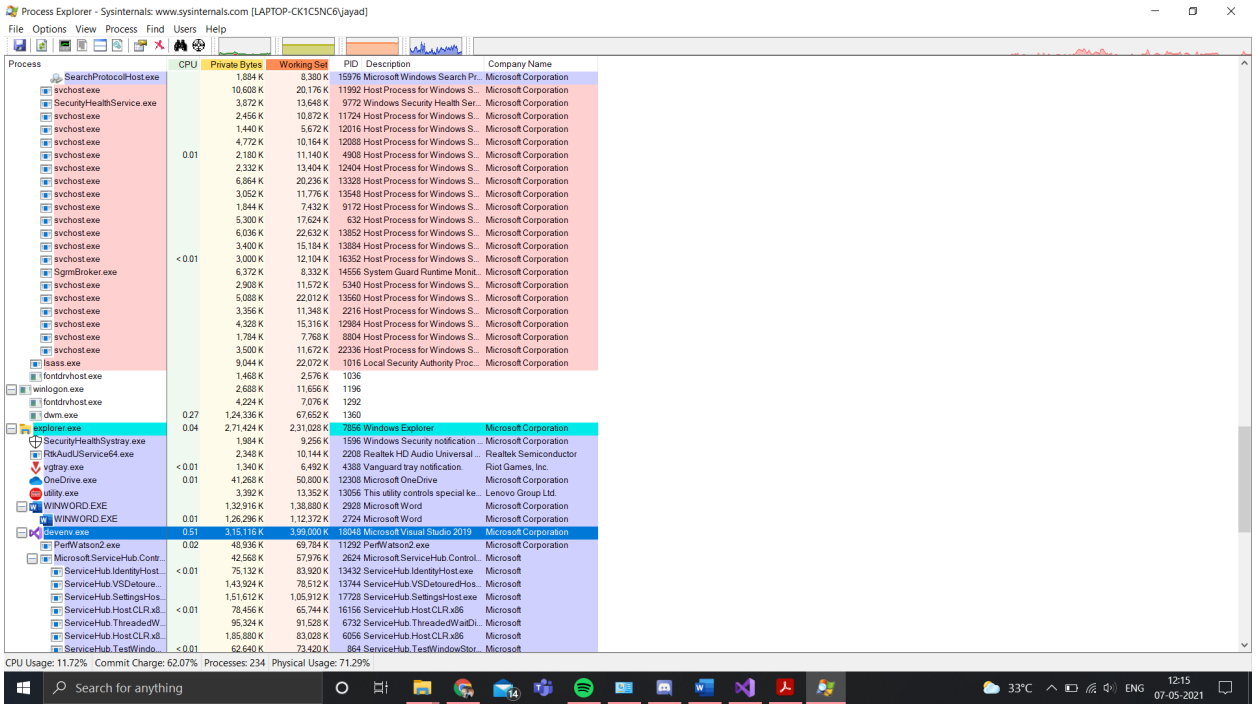

SecureCodingApp Property Pages
Configuration: Active(Debug)
Platform: Active(Win32)
Configuration Manager...
Configuration Properties
General
Advanced
Debugging
VC++ Directories
C/C++
Linker
General
Input
Manifest File
Debugging
System
Optimization
Embedded IDL
Windows Metadata
Advanced
All Options
Command Line
Manifest Tool
Resources
XML Document Generator
Browse Information
Build Events
Look for options or switches:
No Entry Point No
Nobind delay loaded DLL
Output File $(OutDir)$(TargetName)$(TargetExt)
Per-user Redirection No
Preserve Last Error Code for PInvoke C
Prevent Dll Binding
Profile No
Profile Guided Database $(OutDir)$(TargetName).pgd
Randomized Base Address Yes (/DYNAMICBASE)
References
Register Output No
SectionAlignment
Set Checksum No
Show Progress Not Set
Specify Section Attributes
Randomized Base Address
Randomized Base Address. (/DYNAMICBASE[:NO])
OK
Cancel
Apply
Solution Explorer
Solution 'SecureCodingApp' (1 of 1 project)
SecureCodingApp
References
External Dependencies
Header Files
Resource Files
Source Files
Properties
SecureCodingApp Project Properties
(Name) SecureCodingApp
Project Dependencies
Project File C:\Users\jayad\source\repos\Secu
Root Namespace SecureCodingApp
(Name)
Specifies the project name.
Error List
Entire Solution
1 Error
0 Warnings
Code
Description
Output
Package Manager Console
Ready
Add to Source Control
Search for anything
33°C Mostly cloudy
ENG
12:07
07-05-2021

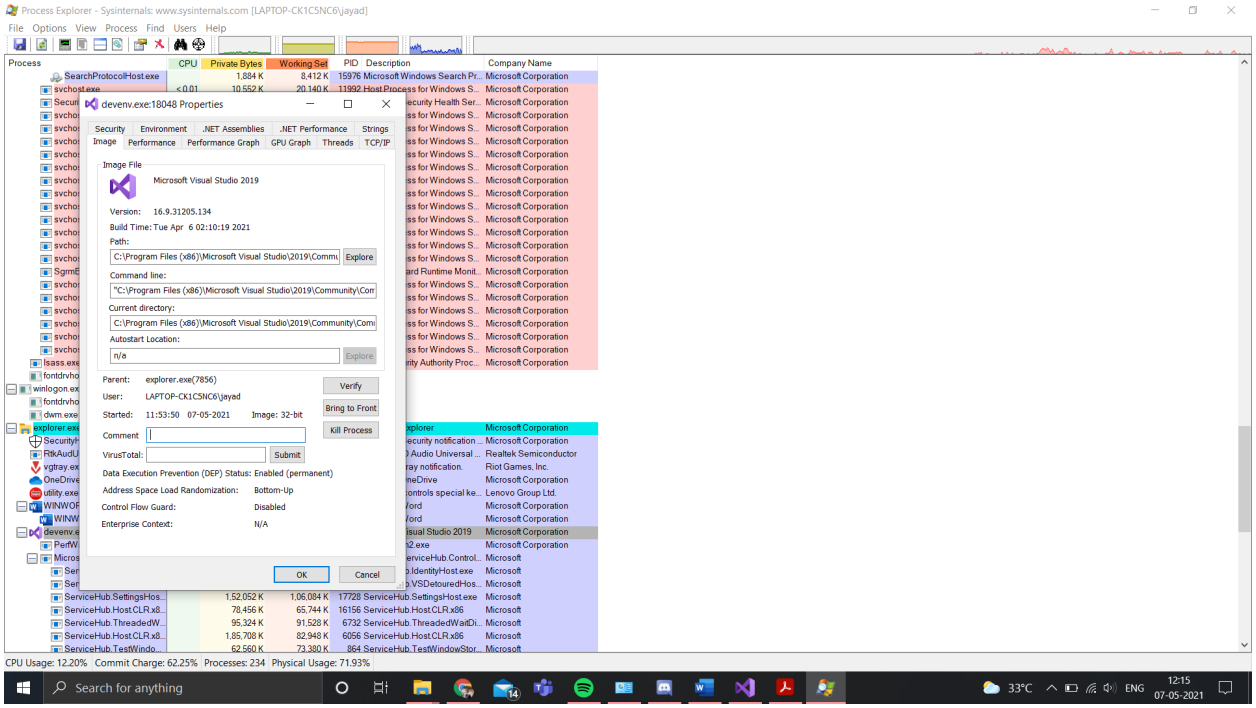

SecureCodingApp Property Pages
Configuration: Active(Debug)
Platform: Active(Win32)
Configuration Manager...
Look for options or switches:
Heap Reserve Size
Ignore All Default Libraries
Ignore Embedded IDL No
Ignore Import Library No
Ignore Specific Default Libraries
Image Has Safe Exception Handlers No
Import Library
Incremental Link Database File
Key Container
Key File
Link Library Dependencies Yes
Link Status
Link Time Code Generation
Link Time Code Generation Object File $(IntDir)$(TargetName).iobj
Manifest File $(IntDir)$(TargetName)$(TargetExt).intermediate.manifest
Image Has Safe Exception Handlers
When /SAFESEH is specified, the linker will only produce an image if it can also produce a table of the image's safe exception handlers. This table specifies for the operating system which exception handlers are valid for the image.
When /SAFESEH is specified, the linker will only produce an image if it can also produce a table of the image's safe exception handlers. This table specifies for the operating system which exception handlers are valid for the image.
OK
Cancel
Apply
Solution Explorer
Properties
SecureCodingApp Project Properties
(Name)
Specifies the project name.
Error List
Output
Package Manager Console
Ready
Add to Source Control
Search for anything
33°C Mostly cloudy
ENG
12:08
07-05-2021



Downloading, installing and analysing through Process Explorer




Process Explorer - Sysinternals: www.sysinternals.com [LAPTOP-CK1C5NC6\jayad]
File Options View Process Find Users Help
Process CPU Private Bytes Working Set PID Description Company Name
CPU Usage: 11.72% Commit Charge: 62.07% Processes: 234 Physical Usage: 71.29%
Search for anything
33°C ENG 12:15 07-05-2021


Process Explorer - Sysinternals: www.sysinternals.com [LAPTOP-CK1C5NC6\jayad]
devenv.exe:18048 Properties
Security Environment .NET Assemblies .NET Performance Strings
Image Performance Performance Graph GPU Graph Threads TCP/IP
Image File
Microsoft Visual Studio 2019
Version: 16.9.31205.134
Build Time: Tue Apr 6 02:10:19 2021
Path:
Command line:
Current directory:
Autostart Location:
Parent: explorer.exe(7856)
User: LAPTOP-CK1C5NC6\jayad
Started: 11:53:50 07-05-2021 Image: 32-bit
Comment
VirusTotal:
Submit
Data Execution Prevention (DEP) Status: Enabled (permanent)
Address Space Load Randomization: Bottom-Up
Control Flow Guard: Disabled
Enterprise Context: N/A
Verify
Bring to Front
Kill Process
OK
Cancel
CPU Usage: 12.20% Commit Charge: 62.25% Processes: 234 Physical Usage: 71.93%
Search for anything
33°C ENG 12:15 07-05-2021