

Secure Coding

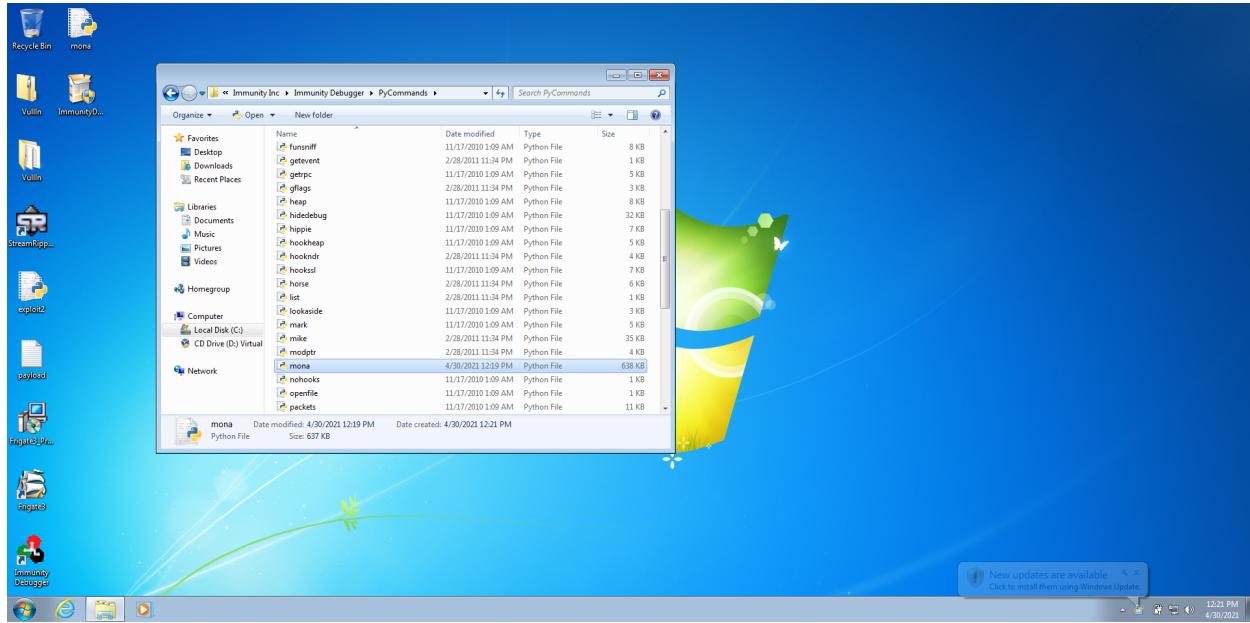
Code-CSE2010

Lab-10

Name- Jayadeep Vinod
Registration number-18BCN7019
Date-03/04/2021
Slot- L23-L24

Analysis-

Install Immunity debugger or ollydbg in windows7

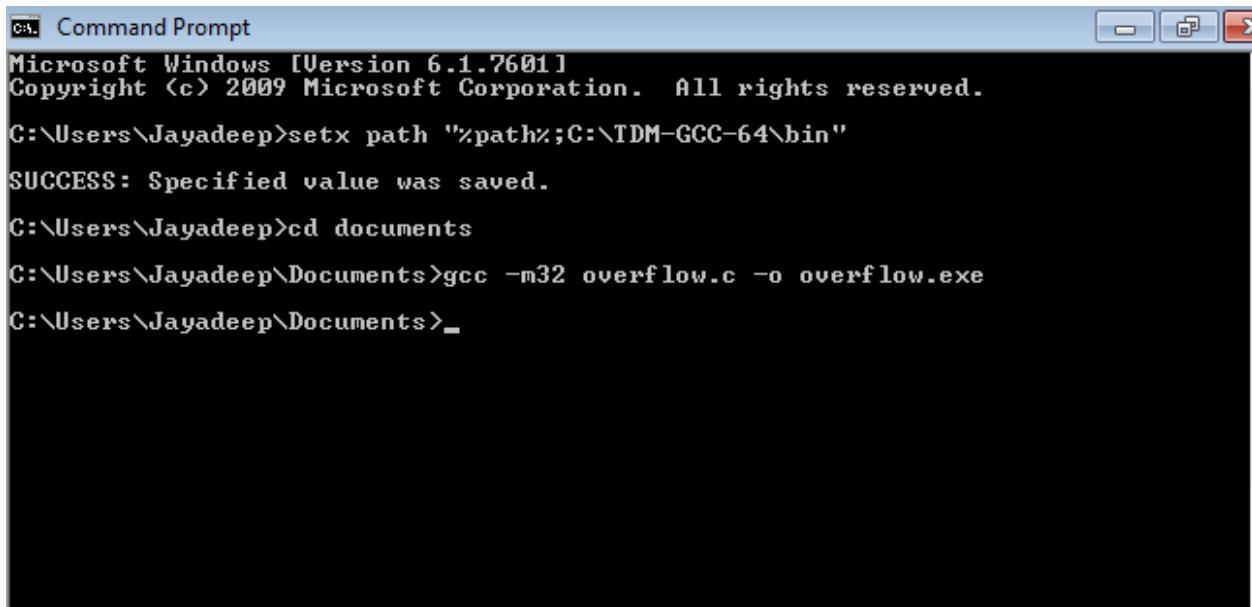


Buffer Overflow code-



```
overflow.c - Notepad
File Edit Format View Help
#include<stdio.h>
int main()
{
char str[50];
printf("Enter your name: ");
gets(str);
printf("Hello %s\n",str);
return 0;
}
```

Running overflow code-



```
Command Prompt
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

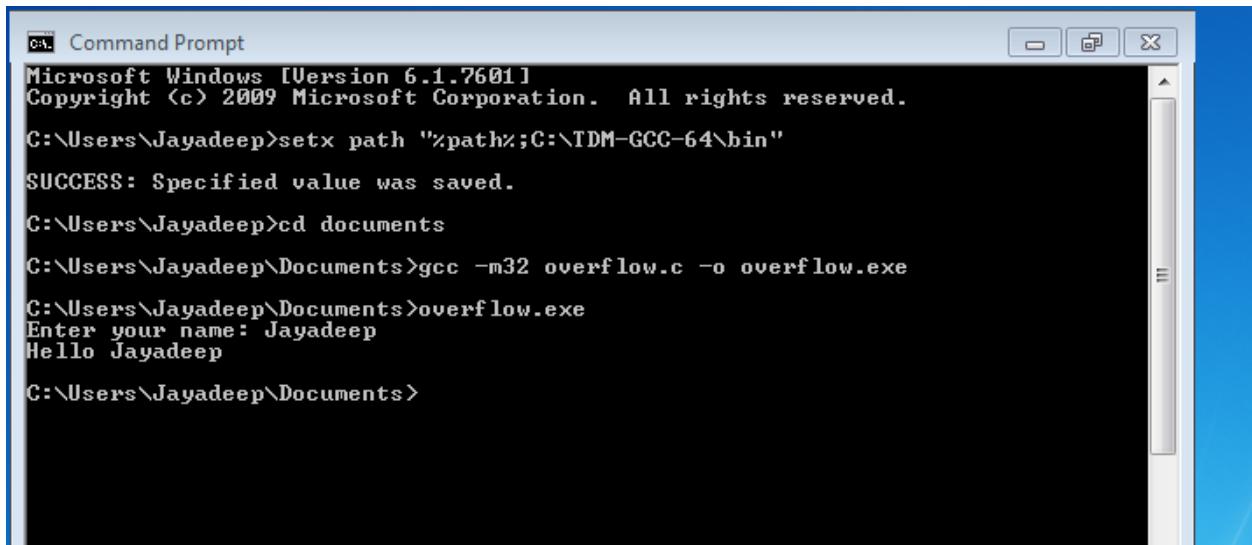
C:\Users\Jayadeep>setx path "%path%;C:\TDM-GCC-64\bin"

SUCCESS: Specified value was saved.

C:\Users\Jayadeep>cd documents

C:\Users\Jayadeep\Documents>gcc -m32 overflow.c -o overflow.exe

C:\Users\Jayadeep\Documents>_
```



```
Command Prompt
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Users\Jayadeep>setx path "%path%;C:\TDM-GCC-64\bin"

SUCCESS: Specified value was saved.

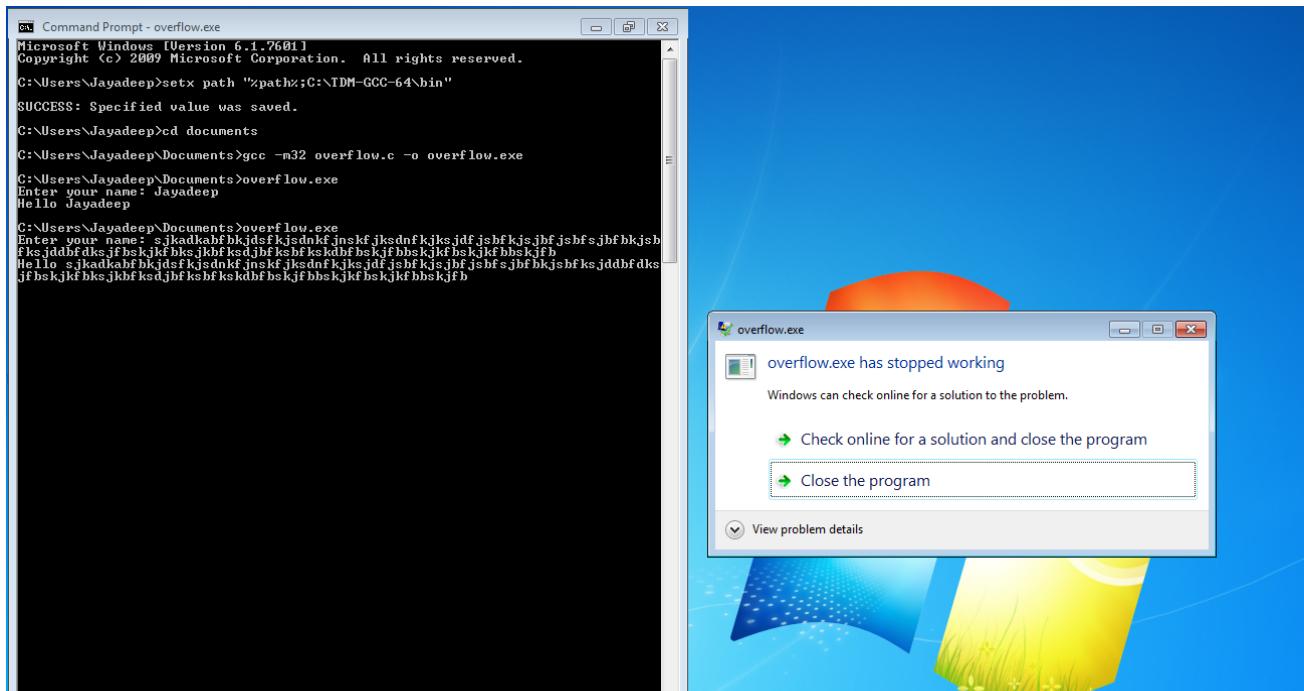
C:\Users\Jayadeep>cd documents

C:\Users\Jayadeep\Documents>gcc -m32 overflow.c -o overflow.exe

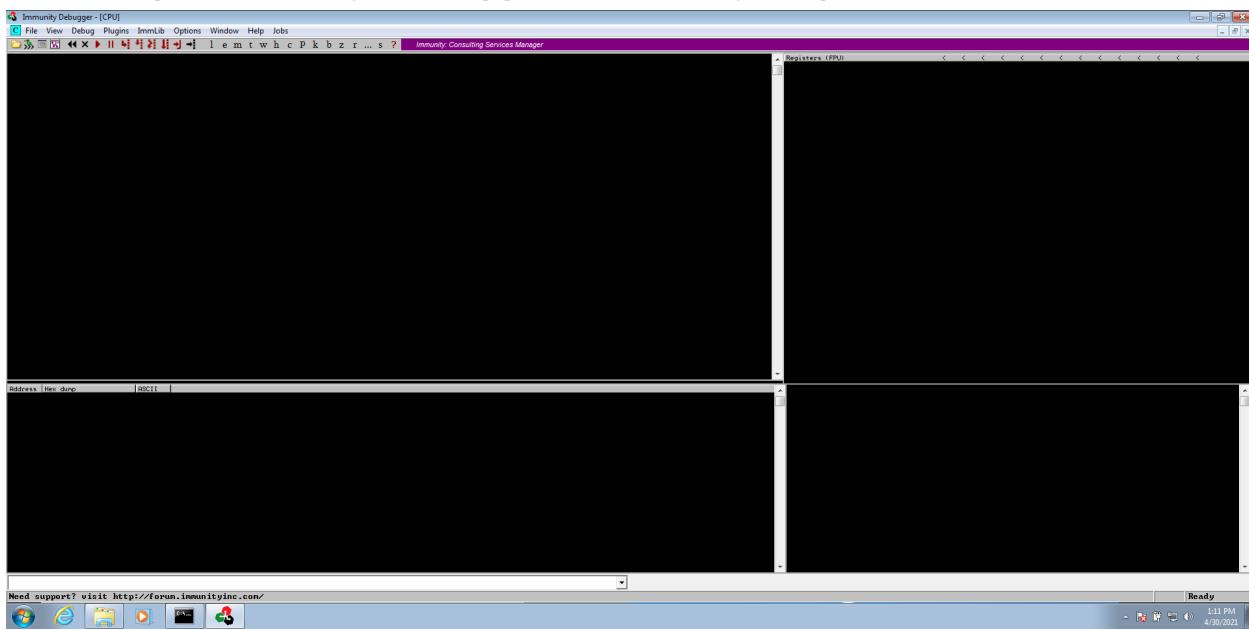
C:\Users\Jayadeep\Documents>overflow.exe
Enter your name: Jayadeep
Hello Jayadeep

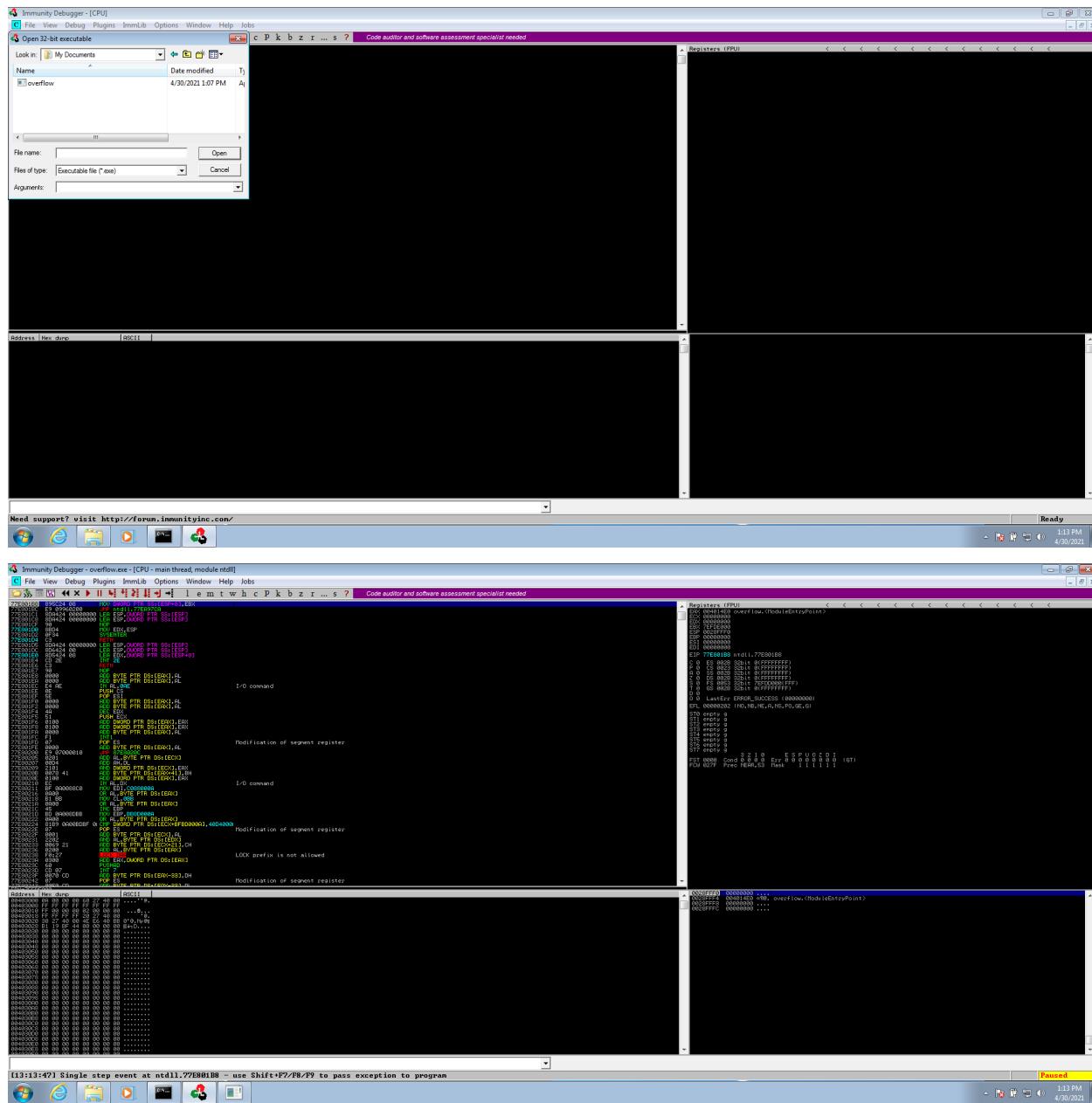
C:\Users\Jayadeep\Documents>
```

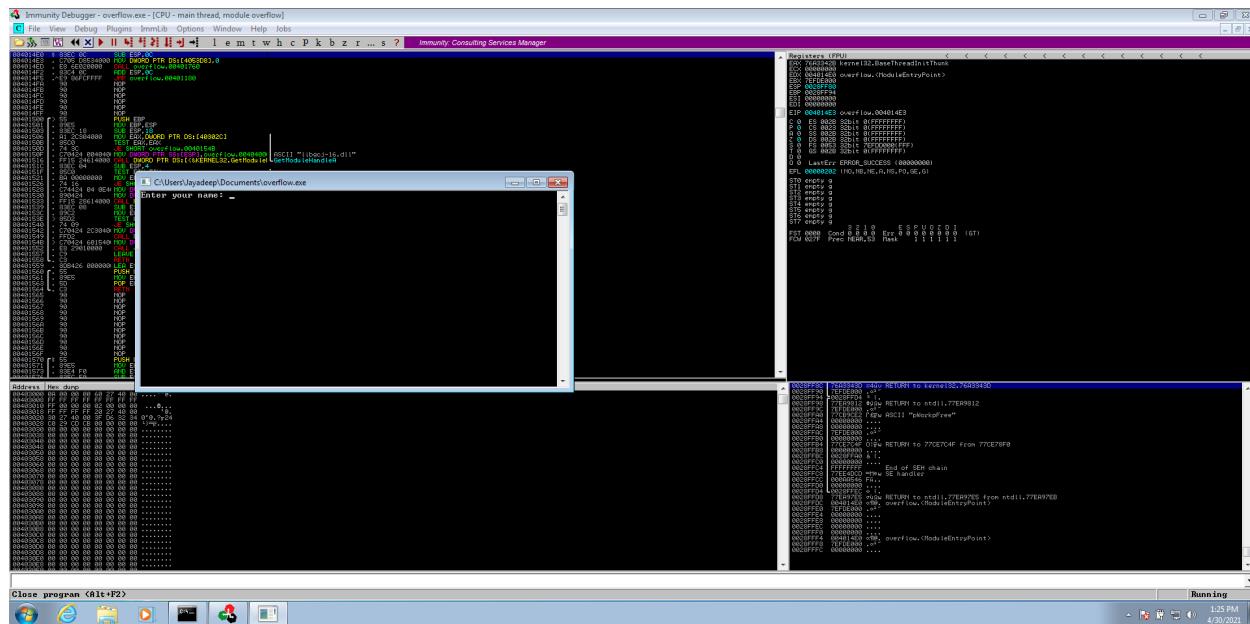
Crashing-



Running Immunity debugger and analysing the errors-







Crashing and later checking SEH chain

