Buffer Overflow Part I

Buffer Overflow in C

Remember to save your work to your GitHub Repository

In this example, you will compile and run a program in C. The program is already provided as bufoverflow.c - a simple program that creates a buffer and then asks you for a name, and prints it back out to the screen.

This is the code in bufoverflow.c:

```c
#include <stdio.h>

int main(int argc, char **argv)
{
char buf[8]; // buffer for eight characters
printf("Enter name: ");
gets(buf); // read from stdio (sensitive function!)
printf("%s\n", buf); // print out data stored in buf
return 0; // 0 as return value
}
```

Now use the rocket icon to compile and run the code. To test it, enter your first name (or at least the first 8 characters of it) you should get the output which is just your name repeated back to you.

Run the code a second time (from the command window this can be achieved by entering `./bufoverflow` on the command line). This time, enter a string of 10 or more characters.

- What happens?
- What does the output message mean?

Now move on to Part II of this exercise - **Buffer Overflow in Python**

Be prepared to discuss your thoughts on both exercises at the next seminar session.