

Assignment 10

Task 1

Decompilation

Decompilation with Ghidra returns the following output:

```
int main(int argc, char **argv)
{
    char local_28 [32];

    printf("Enter your name: ");
    fgets(local_28,0x20,stdin);
    printf("Hello ");
    printf(local_28);
    putchar(10);
    return 0;
}
```

Software vulnerability

Description

Compilation with gcc returns the following error: cd

```
main.c:12:10: warning: format not a string literal and no format
arguments [-Wformat-security]
```

As seen from the above output, the software vulnerability is in line 12:

```
printf(local_28);
```

This allows the attacker to view and modify the memory. More on this [here](#).

Fix

The fix is to use a format parameter, in this case %s.

```
printf("%s", local_28);
```

Task 2



You've earned 0 invitations. 13 / 26 points to your next private invitation. [Learn more about invitations.](#)

Difficulty (Points)	Name	Skills	Completion	
Trivial (1 / flag)	A little something to get you started	Web	1 / 1	Go Hints Restart
Easy (2 / flag)	Micro-CMS v1	Web	4 / 4	Go Hints Restart
Moderate (3 / flag)	Micro-CMS v2	Web	0 / 3	Go Hints Restart
Hard (9 / flag)	Encrypted Pastebin	Web, Crypto	0 / 4	Go Hints Restart