Deliverable #1:

After examining the x86 assembly language provided, the code looks to potentially resemble an application related to an IRC (Internet Relay Chat) forum (*potentially*).

There is what looks to be some login text and functionality displayed in the code ("Enter password: " and "ThisPasswordSux!"), as well as "*This week's IRC info:* " that helps with this theory. With that, we can also assume that a schedule is embedded/displays from the program showing the IRC info.

A few of the calls found throughout the program: _setmode, signal, putchar, printf, puts, strlen, getchar, fgets, VirtualProtect, memcpy, EnterCriticalSelection, LeaveCriticalSelection

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Deliverable #2:

After running the program and entering the password (ThisPasswordSux!) the program outputted the following:

```
This week's IRC info: irc.somber.net #ghost
Press [Enter] to continue:
```

Afterward the process is then terminated.

Deliverable #3:

After joining the IRC server '*irc.somber.net'* and the channel *'#ghost'* under the NICK 'red_cloud', I observed an interesting and suspicious ongoing conversation. Below is every message I encountered after joining (with usernames):

```
<@mama> it's possible
< f8> I wipe the computer anyway?
<@mama> *Russian text?* IDIOT you ruin the market!!! No
< f8> what will be next target? Chicago Lncd n Park payd LOL
<@mama> maybe something for the same price
< f8> $50k in bitcoin?
<@mama> it's possible
```

I ran the commands /WHO and /WHOIS but nothing displayed (not sure if this was internally figured or if I did this incorrectly), but I did notice at the top the only users were myself (red_cloud), @mama, and f8. The top area also displayed a section that said ‘Total of 3 nicks [1 ops, 0 halfops, 0 voices, 2 normal]. After a quick google search, ‘OPS’ basically denotes Op status which gives you control over the channel and users on it - so one of @mama or f8 were in charge of the channel.

Going back to the conversation between @mama and f8, it was definitely about something devious and related to a targeted attack on ‘Chicago Lncd n Park payd’ and holding something of theirs for ransom (potentially). As for the ‘I wipe the computer anyway?’ and ‘... you ruin the market’ comments - I believe this is in reference to another malicious activity involving a computer that is either being held for ransom or something that they have undetected backdoor access to.