Create a **C:\IDA** folder and move them there.

* crackme-121-1.exe
* crackme-121-2.exe
* crackme-121-3.exe
* crackme-121-4.exe
* msvcr100d.dll

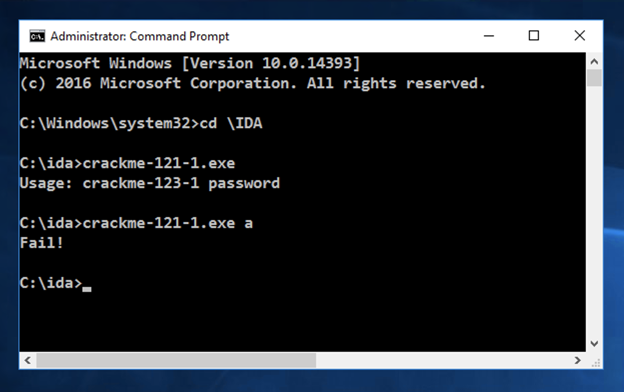
Open a Command Prompt and execute these commands:

**cd \IDA**

**crackme-121-1.exe**

**crackme-121-1.exe a**

The program runs, showing a help message and the message "Fail", showing that the password is incorrect, as shown below.



|  |
| --- |
| **Flag PMA 303.4: crackme-121-2 (5 pts extra)**  Analyze crackme-121-2 in IDA. Find the password.  Run the program in a Command Prompt with the correct password and verify that it produces the "Congratulations" message.  The password is the flag. |
| **Flag PMA 303.5: crackme-121-3 (5 pts extra)**  Analyze crackme-121-3 in IDA. Find the password.  Run the program in a Command Prompt with the correct password and verify that it produces the "Congratulations" message.  The password is the flag. | |

|  |
| --- |
| **Flag PMA 303.6: crackme-121-4 (10 pts extra)**  Analyze crackme-121-4 in IDA. This one is different.  Find the complete command line required to see the "Congratulations" message.  The flag is that complete command line, like this:  **notepad.exe topsecret** |