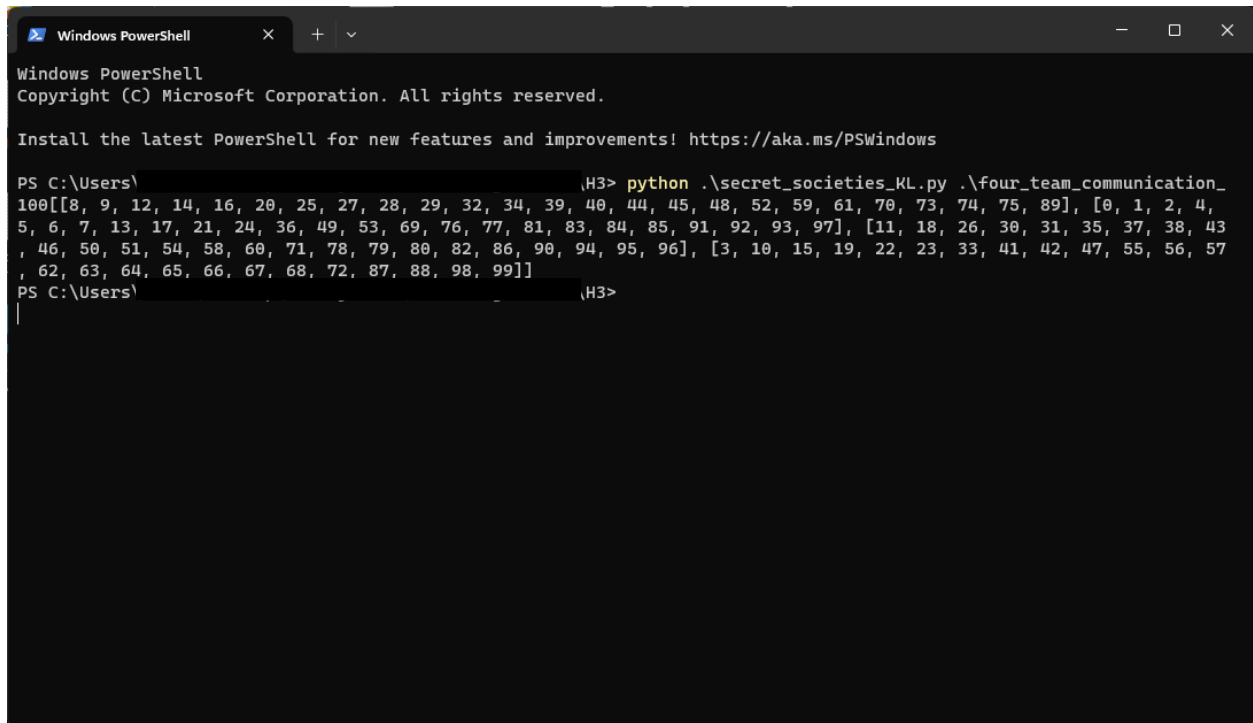


## Instructions to run the code

Running the code from the terminal is shown in the picture. You need to give the graph file as a parameter. Here a random testgraph made with the given random generator for graphs was used. It is included with the code in the folder.

A screenshot of a Windows PowerShell terminal window. The window title is "Windows PowerShell". The text inside shows the standard PowerShell startup messages: "Copyright (C) Microsoft Corporation. All rights reserved." and "Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows". The user is at the prompt "PS C:\Users\" and has entered the command "python .\secret\_societies\_KL.py .\four\_team\_communication\_100". The output of the command is a large list of numbers, which are the results of the script. The list is formatted as a single line with commas separating the elements. The prompt "PS C:\Users\" is visible again at the bottom of the terminal, indicating the command has finished executing.

```
Windows PowerShell
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PS C:\Users\ [H3> python .\secret_societies_KL.py .\four_team_communication_
100[[8, 9, 12, 14, 16, 20, 25, 27, 28, 29, 32, 34, 39, 40, 44, 45, 48, 52, 59, 61, 70, 73, 74, 75, 89], [0, 1, 2, 4,
5, 6, 7, 13, 17, 21, 24, 36, 49, 53, 69, 76, 77, 81, 83, 84, 85, 91, 92, 93, 97], [11, 18, 26, 30, 31, 35, 37, 38, 43
, 46, 50, 51, 54, 58, 60, 71, 78, 79, 80, 82, 86, 90, 94, 95, 96], [3, 10, 15, 19, 22, 23, 33, 41, 42, 47, 55, 56, 57
, 62, 63, 64, 65, 66, 67, 68, 72, 87, 88, 98, 99]]
PS C:\Users\ [H3>
```

The command output is a list of four lists which contain the four found secret societies, or at least the best guesses of them. Some simpler test graphs are also included in the zip file.