

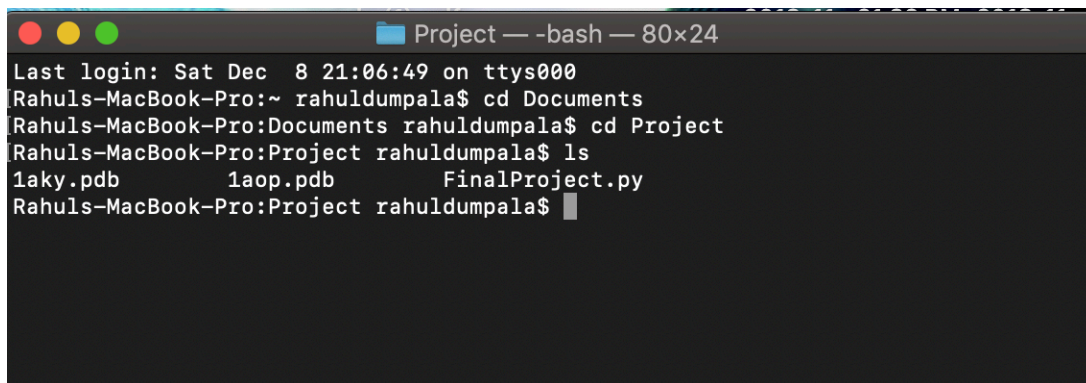
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Project Report

Procedure for Running the program

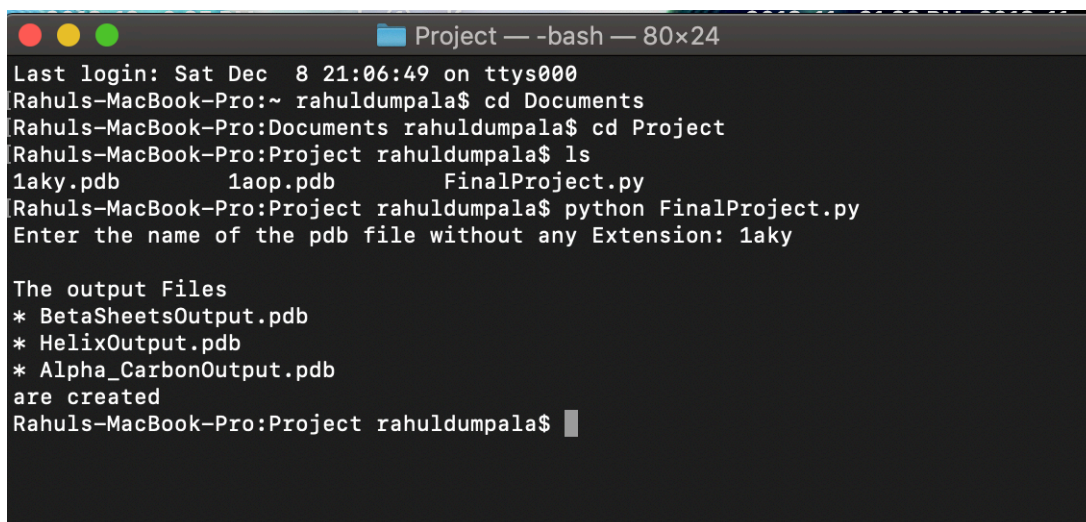
I wrote my code in python and executed using terminal

1. First Create a Folder named "Project" and download all the necessary pdb files that we want to test the code on and even keep the code file i.e., FinalProject.py in the same folder.
2. Now open terminal and navigate to the folder "Project"



```
Project — -bash — 80x24
Last login: Sat Dec  8 21:06:49 on ttys000
Rahuls-MacBook-Pro:~ rahuldumpala$ cd Documents
Rahuls-MacBook-Pro:Documents rahuldumpala$ cd Project
Rahuls-MacBook-Pro:Project rahuldumpala$ ls
1aky.pdb      1aop.pdb      FinalProject.py
Rahuls-MacBook-Pro:Project rahuldumpala$
```

3. Now give a command "python FinalProject.py", the code will be executed.
4. The code will generate 3 pdb Output files after giving the input file name
NOTE: Give file name without any Extension

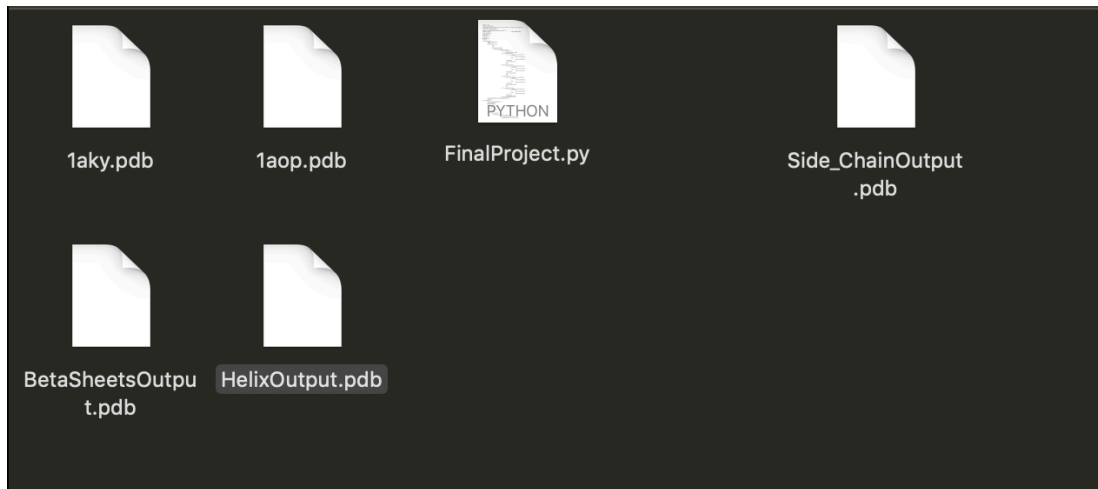


```
Project — -bash — 80x24
Last login: Sat Dec  8 21:06:49 on ttys000
Rahuls-MacBook-Pro:~ rahuldumpala$ cd Documents
Rahuls-MacBook-Pro:Documents rahuldumpala$ cd Project
Rahuls-MacBook-Pro:Project rahuldumpala$ ls
1aky.pdb      1aop.pdb      FinalProject.py
Rahuls-MacBook-Pro:Project rahuldumpala$ python FinalProject.py
Enter the name of the pdb file without any Extension: 1aky

The output Files
* BetaSheetsOutput.pdb
* HelixOutput.pdb
* Alpha_CarbonOutput.pdb
are created
Rahuls-MacBook-Pro:Project rahuldumpala$
```

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5. The Code will generate 3 Output files in the same folder



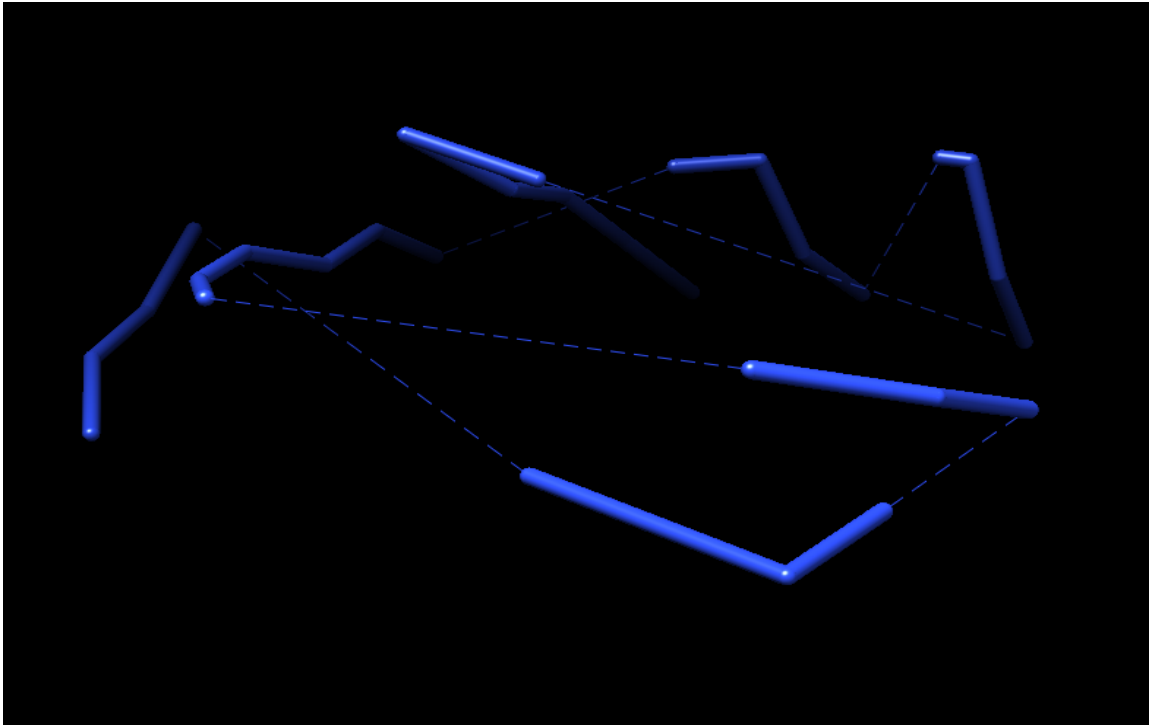
6. Now the generated Output files can be loaded in chimera, we get the following outputs

HelixOutput:



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BetaSheetsOutput:



Side_ChainOutput:

