

Another Approach for Alignment

Date of report: Thursday - 2022 21 July

The first screenshot shows the initial output of the script:

```

Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\Alireza\Desktop\Brock University\another-approach-primers> python .\readData.py

Hi Dear user, welcome to the program

-- Result for primer ATTATTTTATCCACCTAT
339153 : 0.8421052631578947 , 175
652556 : 0.8421052631578947 , 175
1558798 : 0.8421052631578947 , 175
1961212 : 0.8421052631578947 , 175
294 : 1.0 , 190

-- Result for primer ACCGGCAGAAGCTTATAAT
376578 : 0.8421052631578947 , 175
787 : 1.0 , 190

-- Result for primer AGATTTTAGT
1076169 : 0.9 , 95
1307993 : 0.9 , 95
1312709 : 0.9 , 95
1315755 : 0.9 , 95
1321548 : 0.9 , 95
1370220 : 0.9 , 95
1374633 : 0.9 , 95
  
```

The second screenshot shows the continuation of the output, with a table of positions, identities, and scores for a larger set of sequences. Annotations highlight specific values:

| Position | Identity | Score |
|----------|----------|-------|
| 703902 | 0.9 | 95 |
| 707592 | 0.9 | 95 |
| 723378 | 0.9 | 95 |
| 816768 | 0.9 | 95 |
| 724791 | 0.9 | 95 |
| 724168 | 0.9 | 95 |
| 765185 | 0.9 | 95 |
| 810875 | 0.9 | 95 |
| 765307 | 0.9 | 95 |
| 806024 | 0.9 | 95 |
| 796793 | 0.9 | 95 |
| 767121 | 0.9 | 95 |
| 782084 | 0.9 | 95 |
| 781286 | 0.9 | 95 |
| 1092262 | 1.0 | 100 |
| 93962 | 1.0 | 100 |
| 422456 | 1.0 | 100 |
| 2272457 | 1.0 | 100 |
| 1359945 | 1.0 | 100 |
| 767005 | 1.0 | 100 |
| 915726 | 1.0 | 100 |
| 259183 | 1.0 | 100 |
| 202458 | 1.0 | 100 |
| 764908 | 1.0 | 100 |
| 1486 | 1.0 | 100 |

Annotations in the second screenshot:

- positions**: Points to the first column of the table (e.g., 765307).
- Identities**: Points to the second column of the table (e.g., 0.9).
- Score**: Points to the third column of the table (e.g., 100).

The script continues with the following output:

```

-- Result for primer TTGAGTGAAATGGTCATGTGTGGCG
-- Result for primer AACCAACGTCGGCCCCAAGGT
PS C:\Users\Alireza\Desktop\Brock University\another-approach-primers>
  
```