Code Run

User 1 – input personal information and gets the best optimum time to choose the best match.

```
C:\Users\smrii\AppData\Local\Programs\Python\Python37\python.exe C:/Users/smrii/Documents/GitHub/Final-Project/candidate.py
Please enter your gender (options: male, female, other): female
Which gender you are looking for (options: male, female, other): male
Please enter your age: 26
Please enter your nationality (e.g. US, UK, China, India): india
Please enter the city you currently live in (e.g. Champaign, Chicago, New York, Los Angeles): champaign
Please enter your personality (options: introvert, extrovert, ambivert): extrovert
Which personality do you prefer (options: introvert, extrovert, ambivert): extrovert

Please enter what you are interested. Below are the options you can choose:

travelling
adventures
partying
pets
music
food
sports
movies
reading
programming
computer games
art

Once you've finished, input "quit" to exit this section
```

```
choose one of these you are interested: partying
choose one of these you are interested: food
choose one of these you are interested: quit

Please enter your three preferences. Options: age, city, nationality, personality, music, pets, food, ...
enter the first preference: city
enter the second preference: nationality
enter the third preference: partying

How many candidates do you want to meet in real life: 15

By default you'll meet them in ranking order. Do you want to meet them in random instead (yes or no)? no
```

No.	Score	isCompetitive	First_Name	Last_Name	Gender	Age	City	Nationality	Personality
0	5.375	No	Paul	White	male	28	Champaign	India	extrovert
1	4.375	Yes	Kevin	Williams	male	32	Champaign	India	ambivert
2	4.0	Yes	Michael	Johnson	male	29	Champaign	India	ambivert
3	4.0	No	Daniel	Perez	male	27	Champaign	India	introvert
4	3.625	No	James	Perez	male	23	Austin	India	extrovert
5	3.625	Yes	Rick	Lewis	male	23	Champaign	UK	extrovert
6	3.625	No	David	Lewis	male	32	Houston	India	extrovert
7	3.625	Yes	Paul	Johnson	male	25	Champaign	China	extrovert
8	3.5	Yes	Michael	Williams	male	29	Champaign	India	ambivert
9	3.5	No	John	Green	male	25	Champaign	India	introvert
10	3.25	No	John	White	male	31	Boston	India	extrovert
11	3.25	Yes	Peter	Perez	male	25	Champaign	US	extrovert
12	3.125	Yes	Peter	Perez	male	28	Champaign	Korea	introvert
13	2.75	No	Mark	Adams	male	30	San Francisco	India	extrovert
14	2.75	No	Steven	Darch	male	27	San Francisco	India	extrovert

```
probability for stop time 0: 0.4723
probability for stop time 1: 0.5709
probability for stop time 2: 0.6121
probability for stop time 3: 0.646
probability for stop time 4: 0.6366
probability for stop time 5: 0.6416
probability for stop time 6: 0.6291
probability for stop time 7: 0.6306
probability for stop time 8: 0.6164
probability for stop time 9: 0.5963
probability for stop time 10: 0.5743
probability for stop time 11: 0.5426
probability for stop time 12: 0.5047
probability for stop time 13: 0.4532
probability for stop time 14: 0.3374
To find the best dating match, the optimal time recommended for you is: 3

How many candidates do you want to meet in real life: 15

By default you'll meet them in ranking order. Do you want to meet them in random instead (yes or no)? yes
No.     Score   isCompetitive   First_Name  Last_Name   Gender  Age     City            Nationality     Personality
0       3.25    Yes             Peter       Perez       male    25      Champaign       US              extrovert
1       2.75    No              Mark        Adams       male    30      San Francisco   India           extrovert
2       4.0     Yes             Michael     Johnson     male    29      Champaign       India           ambivert
3       3.25    No              John        White       male    31      Boston          India           extrovert
4       5.375   No              Paul        White       male    28      Champaign       India           extrovert
5       3.625   Yes             Paul        Johnson     male    25      Champaign       China           extrovert
```

```
5       3.625   Yes             Paul        Johnson     male    25      Champaign       China           extrovert
6       3.5     No              John        Green       male    25      Champaign       India           introvert
7       2.75    No              Steven      Darch       male    27      San Francisco   India           extrovert
8       3.625   No              James       Perez       male    23      Austin          India           extrovert
9       3.625   Yes             Rick        Lewis       male    23      Champaign       UK              extrovert
10      4.375   Yes             Kevin       Williams    male    32      Champaign       India           ambivert
11      4.0     No              Daniel      Perez       male    27      Champaign       India           introvert
12      3.125   Yes             Peter       Perez       male    28      Champaign       Korea           introvert
13      3.5     Yes             Michael     Williams    male    29      Champaign       India           ambivert
14      3.625   No              David       Lewis       male    32      Houston         India           extrovert
probability for stop time 0: 0.015
probability for stop time 1: 0.0177
probability for stop time 2: 0.0769
probability for stop time 3: 0.0861
probability for stop time 4: 0.4932
probability for stop time 5: 0.4978
probability for stop time 6: 0.499
probability for stop time 7: 0.4702
probability for stop time 8: 0.4774
probability for stop time 9: 0.462
probability for stop time 10: 0.5219
probability for stop time 11: 0.5235
probability for stop time 12: 0.4809
probability for stop time 13: 0.441
probability for stop time 14: 0.3478
To find the best dating match, the optimal time recommended for you is: 11

How many candidates do you want to meet in real life:
```

When the User 1 chooses to meet the candidates in the ranking order - stop time is 3

When the User 1 chooses to meet the candidates in the random order - stop time is 11.

User 2 – Input personal information and gets the best optimum time to choose the best match.

```
C:\Users\smrii\AppData\Local\Programs\Python\Python37\python.exe C:/Users/smrii/Documents/GitHub/Final-Project/candidate.py
Please enter your gender (options: male, female, other): male
Which gender you are looking for (options: male, female, other): female
Please enter your age: 24
Please enter your nationality (e.g. US, UK, China, India): us
Please enter the city you currently live in (e.g. Champaign, Chicago, New York, Los Angeles): new york
Please enter your personality (options: introvert, extrovert, ambivert): ambivert
Which personality do you prefer (options: introvert, extrovert, ambivert): extrovert

Please enter what you are interested. Below are the options you can choose:

travelling
adventures
partying
pets
music
food
sports
movies
reading
programming
computer games
art

Once you've finished, input "quit" to exit this section

choose one of these you are interested: adventures
```

```
choose one of these you are interested: pets
choose one of these you are interested: music
choose one of these you are interested: computer games
choose one of these you are interested: quit

Please enter your three preferences. Options: age, city, nationality, personality, music, pets, food, ...
enter the first preference: adventures
enter the second preference: personality
enter the third preference: city

How many candidates do you want to meet in real life: 15

By default you'll meet them in ranking order. Do you want to meet them in random instead (yes or no)? no
```

No.	Score	isCompetitive	First_Name	Last_Name	Gender	Age	City	Nationality	Personality
0	4.125	No	Taylor	Adams	female	33	New York	US	introvert
1	4.0	Yes	Jessica	Smith	female	26	New York	Germany	extrovert
2	4.0	No	Taylor	Williams	female	31	New York	China	extrovert
3	3.25	Yes	Michelle	White	female	30	Los Angeles	US	extrovert
4	3.25	Yes	Lisa	Johnson	female	24	Champaign	US	extrovert
5	3.25	Yes	Laura	Darch	female	31	Houston	US	extrovert
6	3.25	No	Sherry	Green	female	31	New York	US	introvert
7	3.25	No	Elizabeth	Adams	female	26	New York	US	introvert
8	3.125	Yes	Susan	Lewis	female	28	New York	Korea	ambivert
9	3.125	Yes	Emma	Adams	female	22	Houston	Korea	extrovert
10	3.125	Yes	Rebecca	Green	female	26	Los Angeles	India	extrovert
11	3.125	Yes	Emma	Lewis	female	30	New York	Germany	ambivert
12	3.125	Yes	Michelle	Hughes	female	28	San Francisco	Korea	extrovert

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13      3.125   Yes             Emma        White       female      26          Chicago             Korea           extrovert
14      3.125   No              Taylor      White       female      30          Seattle             Germany         extrovert
probability for stop time 0: 0.1935
probability for stop time 1: 0.3341
probability for stop time 2: 0.4657
probability for stop time 3: 0.4872
probability for stop time 4: 0.4995
probability for stop time 5: 0.4999
probability for stop time 6: 0.5169
probability for stop time 7: 0.5265
probability for stop time 8: 0.5222
probability for stop time 9: 0.5156
probability for stop time 10: 0.4978
probability for stop time 11: 0.4837
probability for stop time 12: 0.4594
probability for stop time 13: 0.4149
probability for stop time 14: 0.3228
To find the best dating match, the optimal time recommended for you is: 7

How many candidates do you want to meet in real life: 15

By default you'll meet them in ranking order. Do you want to meet them in random instead (yes or no)? yes
No.     Score   isCompetitive   First_Name  Last_Name   Gender      Age         City                Nationality     Personality
0       3.125   Yes             Susan       Lewis       female      28          New York            Korea           ambivert
1       3.25    No              Elizabeth   Adams       female      26          New York            US              introvert
2       3.125   Yes             Emma        Lewis       female      30          New York            Germany         ambivert
3       3.125   Yes             Rebecca     Green       female      26          Los Angeles         India           extrovert
```

```
4       4.0     No              Taylor      Williams    female      31          New York            China           extrovert
5       3.125   Yes             Emma        Adams       female      22          Houston             Korea           extrovert
6       3.125   Yes             Michelle    Hughes      female      28          San Francisco       Korea           extrovert
7       3.125   No              Taylor      White       female      30          Seattle             Germany         extrovert
8       3.25    Yes             Laura       Darch       female      31          Houston             US              extrovert
9       4.125   No              Taylor      Adams       female      33          New York            US              introvert
10      3.25    Yes             Lisa        Johnson     female      24          Champaign           US              extrovert
11      3.25    No              Sherry      Green       female      31          New York            US              introvert
12      4.0     Yes             Jessica     Smith       female      26          New York            Germany         extrovert
13      3.25    Yes             Michelle    White       female      30          Los Angeles         US              extrovert
14      3.125   Yes             Emma        White       female      26          Chicago             Korea           extrovert
probability for stop time 0: 0.0332
probability for stop time 1: 0.0733
probability for stop time 2: 0.0973
probability for stop time 3: 0.1218
probability for stop time 4: 0.2562
probability for stop time 5: 0.2714
probability for stop time 6: 0.2799
probability for stop time 7: 0.2906
probability for stop time 8: 0.309
probability for stop time 9: 0.4188
probability for stop time 10: 0.4254
probability for stop time 11: 0.4133
probability for stop time 12: 0.4608
probability for stop time 13: 0.4175
probability for stop time 14: 0.3271
To find the best dating match, the optimal time recommended for you is: 12
```

When the User 2 chooses to meet the candidates in the ranking order - stop time is 7

When the User 2 chooses to meet the candidates in the random order - stop time is 12.