

The get_opt working and printing the usage of the application

```
PS D:\AUC\Fall 2021\Courses\Databases\Project\Milestone III-900183162-Youssef Hussien\Python File> python .\get_opt_example.py --help
# Welcome To GEOPEDIA
A realtime terminal-based application done as part of the Fundamentals of Databases Course Project.

# This project is done by @Youssef Hussien, affilated to AUC-Fall 2021

To view the usage and how to use this application enter -h or --help argument after the application name

# This Client application is capable of performing the following fucntionalities
1. Add a new user review on a country

2. View existing reviews on a given country

3. Register a user

4. Show all the countries that have a specific legislature

5. Show the top 10 countries by GDP, population, area, density, GDP per capita, both globally and within each continent

6. Show all the countries who drive on the right vs. on the left

7. Query and view a given country / capital city information

8. Query and view president / monarch's information

9. Identify the country for a given phone number

10. Identify the country of a given city

To do a specific functionality of the above enter -t or --task followed by the task number. i.e [-t 3] will give third task
```

First Task

```
TypeError: no format number 25 required; not set
PS D:\AUC\Fall 2021\Courses\Databases\Project\Milestone III-900183162-Youssef Hussien\Python File> python .\get_opt_example.py -t 1
# Welcome To GEOPEDIA
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You selected task number 1

To Add a new user review on a country please enter

1. Email:
youss86@gmail.com
2. Username
youss165
3. Country Name
Tunisia
4. Travel Date
2021-11-10
5. Rating
5
6. Review
I LOVE This Country
PS D:\AUC\Fall 2021\Courses\Databases\Project\Milestone III-900183162-Youssef Hussien\Python File> 
```

Second Task

```
PS D:\AUC\Fall 2021\Courses\Databases\Project\Milestone III-900183162-Youssef Hussien\Python File> python .\get_opt_example.py -t 2
# Welcome To GEOPEDIA
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To view the usage and how to use this application enter -h or --help argument after the application name

You selected task number 2

To View existing reviews on a given country please enter

1. Country Name
Iceland
The Current reviews of this country are the following:
  CountryName      Review      Rating CustomerUserName
0    Iceland      Bad Experience      1      Andrew101
1    Iceland      This was a beatuifol country and I enjoyed my ...      7      YoussefHussien2
PS D:\AUC\Fall 2021\Courses\Databases\Project\Milestone III-900183162-Youssef Hussien\Python File>
```

Third Task

```
PS D:\AUC\Fall 2021\Courses\Databases\Project\Milestone III-900183162-Youssef Hussien\Python File> python .\get_opt_example.py -t 3
# Welcome To GEOPEDIA
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You selected task number 3

To Register in the system as a user, please enter the following:

1. Email:
rashed@gmail.com
2. Username
mahmoudkabo
3. Date of Birth
2000-06-10
4. Gender
M
5. Age
21
Your are now registered user in the system, Congrats :)
```

Viewing the current users to make sure last task was performed correctly:
It's the user number 16

	CustomerEmail	CustomerUserName	DOB	Gender	Age
0	aarmstrong@example.net	kalvarado	2016-02-13	M	70
1	ashleyhardin@example.com	dunnjeffrey	2010-12-16	M	12
2	brownteresa@example.org	allisonnguyen	2011-05-13	F	47
3	cmoore@example.net	ywalker	1972-05-15	F	101
4	danielgarcia@example.com	patrickmejia	2007-08-08	F	62
5	david23@example.com	lauren58	2008-12-01	M	23
6	emilyparker@example.com	marthadavis	1992-04-29	M	43
7	hendersonsharon@example.org	amyjackson	1988-03-24	F	19
8	jamesjohnson@example.com	cwilson	1977-02-19	F	3
9	joseph85@example.net	sarahwhite	2020-07-21	M	77
10	longkristin@example.org	melissalawrence	1991-03-29	M	103
11	lyonswilliam@example.com	robinsoncheryl	2009-05-15	M	102
12	mccannchristian@example.net	sheilasimmons	1985-08-17	M	109
13	michael62@example.org	harmonfrancisco	1973-08-12	M	116
14	misty04@example.com	michaelsummers	1990-05-04	M	85
15	nfox@example.net	juarezdenise	2010-09-13	F	83
16	rashed@gmail.com	mahmoudkabo	2000-06-10	M	21
17	shortdonna@example.org	rsimpson	2012-06-06	F	88
18	steven54@example.net	afleming	2007-08-20	M	12
19	wrightsamuel@example.org	anita57	1980-12-29	F	11
20	youssefhussien@aucegypt.edu	YoussefHussien	2000-12-09	M	21
21	zyoung@example.net	lconley	2006-09-14	F	107

Task 4:

You selected task number 4

To Show all the countries that have a specific legislature, enter the following

1. Legislature Type

National Assembly

The Countries of this legislature type are the following:

	CountryName	Legislator
0	Belize	National Assembly
1	Bolivarian Republic of Venezuela	National Assembly
2	Burkina Faso	National Assembly
3	Central African Republic	National Assembly
4	Co-operative Republic of Guyana	National Assembly
5	Democratic Republic of São Tomé and Príncipe	National Assembly
6	Federal Republic of Nigeria	National Assembly
7	Hungary	National Assembly
8	Islamic Republic of Mauritania	National Assembly
9	Kingdom of Thailand	National Assembly
10	Lao People's Democratic Republic	National Assembly
11	Republic of Angola	National Assembly
12	Republic of Armenia	National Assembly
13	Republic of Armenia	National Assembly
14	Republic of Azerbaijan	National Assembly
15	Republic of Azerbaijan	National Assembly
16	Republic of Belarus	National Assembly
17	Republic of Benin	National Assembly
18	Republic of Botswana	National Assembly
19	Republic of Bulgaria	National Assembly
20	Republic of Cabo Verde	National Assembly
21	Republic of Djibouti	National Assembly
22	Republic of Guinea	National Assembly
23	Republic of Korea	National Assembly
24	Republic of Malawi	National Assembly
25	Republic of Mauritius	National Assembly
26	Republic of Nicaragua	National Assembly
27	Republic of Panama	National Assembly
28	Republic of Senegal	National Assembly
29	Republic of Serbia	National Assembly
27	Republic of Panama	National Assembly
28	Republic of Senegal	National Assembly
29	Republic of Serbia	National Assembly
30	Republic of Seychelles	National Assembly
31	Republic of The Gambia	National Assembly
32	Republic of the Niger	National Assembly
33	Republic of Zambia	National Assembly
34	Socialist Republic of Vietnam	National Assembly
35	Togolese Republic	National Assembly
36	United Republic of Tanzania	National Assembly

Task 5

By GDP

To view the usage and how to use this application enter -h or --help argument after the application name

You selected task number 5

To show the top 10 countries by 1. GDP or 2. population or 3. density or 4. GDP Per Capita, enter the respective number

1

The Top Countries by GDP Globally are

	CountryName	GDPPurchase	GDPNominal
0	Republic of Moldova	36886.000	12396.000
1	Kingdom of Thailand	1340.000	536.841
2	Socialist Republic of Vietnam	1047.318	340.602
3	People's Republic of Bangladesh	966.485	409.000
4	Republic of Slovenia	909.000	609.000
5	Malaysia	900.426	336.330
6	Republic of Colombia	827.662	343.177
7	Republic of Vanuatu	820.000	957.000
8	Democratic Republic of Congo	685.000	355.000
9	Kingdom of Tonga	655.000	493.000

The Top 10 Countries by GDP Per Continent are

	CountryName	GDPPurchase	GDPNominal	Continent
0	Republic of Colombia	827.662	343.177	South America
1	Republic of Peru	385.719	195.761	South America
2	Bolivarian Republic of Venezuela	142.416	44.893	South America
3	Republic of Paraguay	101.075	44.557	South America
4	Plurinational State of Bolivia	89.018	40.687	South America
5	Oriental Republic of Uruguay	86.562	62.917	South America
6	Co-operative Republic of Guyana	18.357	7.255	South America
7	Federative Republic of Brazil	3.328	1.491	South America
8	Argentine Republic	1.033	444.458	South America
9	Republic of Cuba	254.865	105.300	North America
10	Dominican Republic	215.999	96.291	North America
11	Republic of Guatemala	145.249	79.109	North America
12	Republic of Panama	121.749	73.369	North America
13	Republic of Costa Rica	95.791	65.179	North America
14	Republic of El Salvador	53.667	25.855	North America
15	Republic of Honduras	49.010	23.835	North America

8	Argentine Republic[4]	1.033	444.438	South America
9	Republic of Cuba	254.865	105.300	North America
10	Dominican Republic	215.999	96.291	North America
11	Republic of Guatemala	145.249	79.109	North America
12	Republic of Panama	121.749	73.369	North America
13	Republic of Costa Rica	95.791	65.179	North America
14	Republic of El Salvador	53.667	25.855	North America
15	Republic of Honduras	49.010	23.835	North America
16	Republic of Trinidad and Tobago	45.148	22.438	North America
17	Republic of Nicaragua	35.757	13.380	North America
18	Republic of Haiti	34.189	22.431	North America
19	Democratic Republic of Congo	685.000	355.000	Africa
20	People's Democratic Republic of Algeria	532.565	163512.000	Africa
21	Kingdom of Morocco	332.358	122.458	Africa
22	Federal Democratic Republic of Ethiopia	278.000	91.514	Africa
23	Republic of Kenya	250.854	109.116	Africa
24	Republic of Ghana	226.000	73.594	Africa
25	Republic of Angola	213.034	64.480	Africa
26	United Republic of Tanzania	200.144	65.632	Africa
27	Republic of the Sudan	177.678	33.903	Africa
28	Republic of Tunisia	159.707	44.192	Africa
29	Kingdom of Thailand	1340.000	536.841	Asia
30	Socialist Republic of Vietnam	1047.318	340.602	Asia
31	People's Republic of Bangladesh	966.485	409.000	Asia
32	Malaysia	900.426	336.330	Asia
33	Republic of Singapore	600.063	374.394	Asia
34	Republic of Iraq	413.316	250.070	Asia
35	State of Israel	372.314	410.501	Asia
36	State of Qatar	357.338	183.807	Asia
37	Democratic Socialist Republic of Sri Lanka	306.997	84.532	Asia
38	Republic of Uzbekistan	275.806	60.490	Asia
39	Republic of Moldova	36886.000	12396.000	Europe
40	Republic of Slovenia	909.000	609.000	Europe
41	Romania	653.903	289.130	Europe
42	Swiss Confederation	584.000	749.000	Europe

By Population

```
2
The Top Countries by Population Globally are
      CountryName  Population
0    People's Republic of China 1411778724
1      Republic of India 1352642280
2    United States of America 331449281
3      Republic of Indonesia 270203917
4      Republic of Indonesia 270203917
5    Islamic Republic of Pakistan 225199937
6    Federal Republic of Nigeria 211400708
7    Federative Republic of Brazil 210147125
8    People's Republic of Bangladesh 161376708
9      Russian Federation 146171015
The Top 10 Countries by Population Per Continent are
      CountryName  Population  Continent
0    Federative Republic of Brazil 210147125  South America
1      Republic of Colombia 50372424  South America
2    Argentine Republic[A] 45605826  South America
3      Republic of Peru 34294231  South America
4    Bolivarian Republic of Venezuela 28887118  South America
5    Plurinational State of Bolivia 11428245  South America
6      Republic of Paraguay 7359000  South America
7    Oriental Republic of Uruguay 3518552  South America
8    Co-operative Republic of Guyana 743700  South America
9      United States of America 331449281  North America
10    United Mexican States 126014024  North America
11      Canada 38246108  North America
12    Republic of Guatemala 17263239  North America
13      Republic of Haiti 11439646  North America
14      Republic of Cuba 11181595  North America
15      Dominican Republic 10878246  North America
16      Republic of Honduras 9587522  North America
17    Republic of El Salvador 6830000  North America
```


9	United States of America	331449281	North America
10	United Mexican States	126014024	North America
11	Canada	38246108	North America
12	Republic of Guatemala	17263239	North America
13	Republic of Haiti	11439646	North America
14	Republic of Cuba	11181595	North America
15	Dominican Republic	10878246	North America
16	Republic of Honduras	9587522	North America
17	Republic of El Salvador	6830000	North America
18	Republic of Nicaragua	6486201	North America
19	Federal Republic of Nigeria	211400708	Africa
20	Federal Democratic Republic of Ethiopia	117876227	Africa
21	Arab Republic of Egypt	101478581	Africa
22	Democratic Republic of the Congo	92377393	Africa
23	United Republic of Tanzania	61193226	Africa
24	Republic of Kenya	54985698	Africa
25	Republic of the Sudan	44909353	Africa
26	People's Democratic Republic of Algeria	44700000	Africa
27	Republic of Uganda[1]	42729036	Africa
28	People's Republic of China	1411778724	Asia
29	Republic of India	1352642280	Asia
30	Republic of Indonesia	270203917	Asia
31	Islamic Republic of Pakistan	225199937	Asia
32	People's Republic of Bangladesh	161376708	Asia
33	Russian Federation	146171015	Asia
34	Japan	125360000	Asia
35	Republic of the Philippines	109035343	Asia
36	French Republic	67413000	Europe
37	Italian Republic	60317116	Europe
38	Kingdom of Spain	47450795	Europe
39	Ukraine	41342465	Europe
40	Republic of Poland	38268000	Europe

By Density

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You selected task number 5

To show the top 10 countries by 1. GDP or 2. population or 3. density or 4. GDP Per Capita, enter the respective number

3

The Top Countries by Density Globally are

	CountryName	Density
0	Republic of Singapore	7485.039802
1	Republic of Maldives	1858.086667
2	Republic of Malta	1628.367089
3	People's Republic of Bangladesh	1086.272940
4	State of Palestine[i]	856.989369
5	Lebanese Republic	656.277076
6	Republic of China	647.894494
7	Republic of Mauritius	620.330882
8	Republic of Korea	515.220729
9	Republic of Rwanda	469.830549

The Top 10 Countries by Density Per Continent are

	CountryName	Density	Continent
0	Republic of Colombia	44.118688	South America
1	Bolivarian Republic of Venezuela	31.520842	South America
2	Republic of Peru	26.683632	South America
3	Federative Republic of Brazil	24.677416	South America
4	Oriental Republic of Uruguay	19.967381	South America
5	Republic of Paraguay	18.090148	South America
6	Argentine Republic[A]	16.402613	South America
7	Plurinational State of Bolivia	10.402733	South America

13	Jamaica	248.081794	North America
14	Dominican Republic	223.505702	North America
15	Republic of Guatemala	158.539788	North America
16	Republic of Cuba	101.758172	North America
17	Republic of Costa Rica	99.689198	North America
18	United States of America	87.298342	North America
19	Republic of Mauritius	620.330882	Africa
20	Republic of Rwanda	469.830549	Africa
21	Union of the Comoros	457.219774	Africa
22	Republic of Burundi	426.306711	Africa
23	Federal Republic of Nigeria	228.845856	Africa
24	Republic of Seychelles	214.514161	Africa
25	Democratic Republic of Congo	210.817183	Africa
26	Republic of The Gambia	203.386566	Africa
27	Republic of Uganda[1]	177.270953	Africa
28	Republic of Malawi	161.455994	Africa
29	Republic of Singapore	7485.039802	Asia
30	Republic of Maldives	1858.086667	Asia
31	People's Republic of Bangladesh	1086.272940	Asia
32	State of Palestine[i]	856.989369	Asia
33	Lebanese Republic	656.277076	Asia
34	Republic of China	647.894494	Asia
35	Republic of Korea	515.220729	Asia
36	State of Israel	453.880597	Asia
37	Republic of India	411.479787	Asia
38	Republic of the Philippines	363.451143	Asia
39	Republic of Malta	1628.367089	Europe
40	Netherlands	421.738923	Europe

By GDP Per Capita

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You selected task number 5

To show the top 10 countries by 1. GDP or 2. population or 3. density or 4. GDP Per Capita, enter the respective number

4

The Top Countries by GDP Per Capita Globally are

	CountryName	GDPPurchase_Per_Capita	GDPNominal_Per_Capita
0	Republic of Moldova	0.014203	0.004773
1	Kingdom of Tonga	0.006508	0.004898
2	Federated States of Micronesia	0.003513	0.003666
3	Democratic Republic of the Congo	0.003246	0.001682
4	Republic of Vanuatu	0.002664	0.003109
5	Republic of Slovenia	0.000431	0.000289
6	State of Qatar	0.000128	0.000066
7	Republic of Singapore	0.000110	0.000069
8	Grand Duchy of Luxembourg	0.000106	0.000110
9	Ireland[a]	0.000100	0.000095

The Top 10 Countries by GDP Per Capita Per Continent are

	CountryName	GDPPurchase_Per_Capita	GDPNominal_Per_Capita	Continent
0	Co-operative Republic of Guyana	2.468334e-05	9.755278e-06	South America
1	Oriental Republic of Uruguay	2.460160e-05	1.788150e-05	South America
2	Republic of Colombia	1.643086e-05	6.812795e-06	South America
3	Republic of Paraguay	1.373488e-05	6.054763e-06	South America
4	Republic of Peru	1.124734e-05	5.708278e-06	South America
5	Plurinational State of Bolivia	7.789297e-06	3.560214e-06	South America
6	Bolivarian Republic of Venezuela	4.930087e-06	1.554084e-06	South America
7	Argentine Republic[A]	2.265061e-08	9.745641e-06	South America
8	Federative Republic of Brazil	1.583652e-08	7.095029e-09	South America
9	Republic of Trinidad and Tobago	3.303371e-05	1.641735e-05	North America
10	Republic of Panama	2.780268e-05	1.675459e-05	North America
11	Republic of Cuba	2.279326e-05	9.417261e-06	North America
12	Dominican Republic	1.985605e-05	8.851703e-06	North America

18	Republic of El Salvador	7.857540e-06	3.785505e-06	North America
19	Democratic Republic of the Congo	3.246015e-03	1.682241e-03	Africa
20	Republic of Seychelles	2.964595e-05	1.588430e-05	Africa
21	Republic of Mauritius	2.505383e-05	1.170470e-05	Africa
22	Republic of Botswana	1.924920e-05	8.307646e-06	Africa
23	Gabonese Republic	1.806278e-05	8.121645e-06	Africa
24	Republic of Tunisia	1.364041e-05	3.774394e-06	Africa
25	People's Democratic Republic of Algeria	1.191421e-05	3.657987e-03	Africa
26	Republic of Namibia	9.354073e-06	4.284718e-06	Africa
27	Kingdom of Eswatini	9.018553e-06	3.629659e-06	Africa
28	Kingdom of Morocco	8.955521e-06	3.299680e-06	Africa
29	State of Qatar	1.278269e-04	6.575140e-05	Asia
30	Republic of Singapore	1.100306e-04	6.865080e-05	Asia
31	Sultanate of Oman	4.223214e-05	1.290099e-05	Asia
32	State of Israel	3.949401e-05	4.354478e-05	Asia
33	Republic of Cyprus	3.242423e-05	2.232135e-05	Asia
34	Malaysia	2.751072e-05	1.027589e-05	Asia
35	Kingdom of Thailand	1.915631e-05	7.674546e-06	Asia
36	Turkmenistan	1.867941e-05	7.090478e-06	Asia
37	Republic of Azerbaijan	1.866220e-05	4.470242e-06	Asia
38	Republic of Moldova	1.420276e-02	4.773016e-03	Europe
39	Republic of Slovenia	4.313933e-04	2.890193e-04	Europe
40	Grand Duchy of Luxembourg	1.055014e-04	1.096127e-04	Europe
41	Ireland[a]	9.977053e-05	9.518108e-05	Europe
42	Swiss Confederation	6.814353e-05	8.739641e-05	Europe
43	Kingdom of Norway	6.478877e-05	6.775054e-05	Europe
44	Kingdom of Sweden	5.420863e-05	5.084844e-05	Europe
45	Iceland	5.328597e-05	5.597718e-05	Europe
46	Republic of Austria	5.164255e-05	4.995069e-02	Europe
47	Kingdom of Belgium	5.010232e-05	4.380333e-05	Europe
48	Kingdom of Tonga	6.507635e-03	4.898113e-03	Oceania
49	Federated States of Micronesia	3.513037e-03	3.666194e-03	Oceania
50	Republic of Vanuatu	2.663938e-03	3.109010e-03	Oceania
51	New Zealand	4.412629e-05	4.739166e-05	Oceania
52	Republic of Fiji	9.837241e-06	5.638708e-06	Oceania
53	Independent State of Samoa	5.866493e-06	4.350488e-03	Oceania
54	Independent State of Papua New Guinea	3.624175e-06	2.411080e-06	Oceania
55	Solomon Islands	2.265427e-06	2.314443e-06	Oceania

Task 6

Search by direction : right

```
PS D:\AUC\Fall 2021\Courses\Databases\Project\Milestone III-908183162-Youssef Hussien\Python File> python .\runner_code.py -t 6
# Welcome To GEOPEDIA
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To view the usage and how to use this application enter -h or --help argument after the application name

You selected task number 6

To Show all the countries who drive on the right vs. on the left, please enter:

1. Driving Side: right or left

right
This is the list of the countries which drive on the 'right'

The Countries driving in that direction are the following:

```

	CountryName	DrivingSide
0	Arab Republic of Egypt	right
1	Arab Republic of Egypt	right
2	Belize	right
3	Bolivarian Republic of Venezuela	right
4	Bosnia and Herzegovina	right
..
119	Togolese Republic	right
120	Turkmenistan	right
121	Ukraine	right
122	Union of the Comoros	right
123	United Mexican States	right

```
[124 rows x 2 columns]
```

Left

You selected task number 6

To Show all the countries who drive on the right vs. on the left, please enter:

1. Driving Side: right or left

left

This is the list of the countries which drive on the 'left'

The Countries driving in that direction are the following:

	CountryName	DrivingSide
0	Co-operative Republic of Guyana	left
1	Commonwealth of Australia	left
2	Democratic Republic of Timor-Leste	left
3	Democratic Socialist Republic of Sri Lanka	left
4	Federal Democratic Republic of Nepal	left
5	Independent State of Papua New Guinea	left
6	Ireland[a]	left
7	Islamic Republic of Pakistan	left
8	Jamaica	left
9	Japan	left
10	Kingdom of Bhutan	left
11	Kingdom of Eswatini	left
12	Kingdom of Lesotho	left
13	Kingdom of Thailand	left
14	Kingdom of Tonga	left
15	Malaysia	left
16	New Zealand	left
17	People's Republic of Bangladesh	left
18	Republic of Botswana	left
19	Republic of Cyprus	left
20	Republic of Cyprus	left

Task 7

Search by country

```
PS D:\AUC\Fall 2021\Courses\Databases\Project\Milestone III-900183162-Youssef Hussien\Python File> python .\runner_code.py -t 7
# Welcome To GEOPEDIA
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To view the usage and how to use this application enter -h or --help argument after the application name

You selected task number 7

To Show a given country / capital city information, please enter :

Do you want to search by 1. country or 2. capital: enter number

1
Enter Country Name

United States of America
This is the info you requested:


| ID    | CountryName              | Continent     | CountryCallingCode | HDI     | ... | PresidentName | PresidentDOB | PresidentOfficeDate | PresidentPolitical | CapitalCityName                |                  |
|-------|--------------------------|---------------|--------------------|---------|-----|---------------|--------------|---------------------|--------------------|--------------------------------|------------------|
| 0 261 | United States of America | North America |                    | 1 0.926 | ... | Joe Biden     | 1942-11-20   |                     | None               | ['Democratic (1969i%present)'] | Washington, D.C. |


[1 rows x 23 columns]
```

```
PS D:\AUC\Fall 2021\Courses\Databases\Project\Milestone III-900183162-Youssef Hussien\Python File> python .\runner_code.py -t 7
# Welcome To GEOPEDIA
A realtime terminal-based application done as part of the Fundamentals of Databases Course Project.

# This project is done by @Youssef Hussien, affilated to AUC-Fall 2021

To view the usage and how to use this application enter -h or --help argument after the application name

You selected task number 7

To Show a given country / capital city information, please enter :

Do you want to search by 1. country or 2. capital: enter number

1
Enter Country Name

Republic of Tunisia
This is the info you requested:


| ID   | CountryName         | Continent | CountryCallingCode | HDI  | Currency       | ... | Vaccinations | PresidentName | PresidentDOB | PresidentOfficeDate | PresidentPolitical | CapitalCityName |
|------|---------------------|-----------|--------------------|------|----------------|-----|--------------|---------------|--------------|---------------------|--------------------|-----------------|
| 0 51 | Republic of Tunisia | Africa    | 216                | 0.74 | Tunisian dinar | ... | None         | Kais Saied    | 1958-02-22   | 2019-10-23          | ['Independent']    | Tunis           |


```

Search by capital city name

```
PS D:\AUC\Fall 2021\Courses\Databases\Project\Milestone III-900183162-Youssef Hussien\Python File> python .\runner_code.py -t 7
# Welcome To GEOPEDIA
A realtime terminal-based application done as part of the Fundamentals of Databases Course Project.

# This project is done by @Youssef Hussien, affilated to AUC-Fall 2021

To view the usage and how to use this application enter -h or --help argument after the application name

You selected task number 7

To Show a given country / capital city information, please enter :

Do you want to search by 1. country or 2. capital: enter number

2
Enter Capital City Name

Ankara

Ankara
This is the info you requested:


| CityName | Population | MetroArea | Governor      | Longitude       | Latitude        |
|----------|------------|-----------|---------------|-----------------|-----------------|
| 0 Ankara | 5663322    | 24521.0   | Mansur YavaÄŸ | 32Â°51â€™00â€™E | 39Â°55â€™48â€™N |


```


Task 8

```
PS D:\AUC\Fall 2021\Courses\Databases\Project\Milestone III-900183162-Youssef Hussien\Python File> python .\runner_code.py -t 8
# Welcome To GEOPEDIA
A realtime terminal-based application done as part of the Fundamentals of Databases Course Project.

# This project is done by @Youssef Hussien, affilated to AUC-Fall 2021

To view the usage and how to use this application enter -h or --help argument after the application name

You selected task number 8

To Query and view president / monarch's information, please enter:

1. President/ Monarch Name

Kais Saied
Kais Saied
The president/monarch info you requested is the following:
  PresidentName      CountryName PresidentDOB PresidentOfficeDate PresidentPolitical
0 Kais Saied  Republic of Tunisia  1958-02-22      2019-10-23      ['Independent']
```

Task 9

Test 1

```
PS D:\AUC\Fall 2021\Courses\Databases\Project\Milestone III-900183162-Youssef Hussien\Python File> python .\runner_code.py -t 9
# Welcome To GEOPEDIA
A realtime terminal-based application done as part of the Fundamentals of Databases Course Project.

# This project is done by @Youssef Hussien, affilated to AUC-Fall 2021

To view the usage and how to use this application enter -h or --help argument after the application name

You selected task number 9

To Identify the country of a given phone number, please enter:

1. The Calling Code
20
2. The phone number
1090433309
The country of the phone number you entered is the following:
      CountryName  CountryCallingCode
0  Arab Republic of Egypt                20
```

Test 2

```
PS D:\AUC\Fall 2021\Courses\Databases\Project\Milestone III-900183162-Youssef Hussien\Python File> python .\runner_code.py -t 9
# Welcome To GEOPEDIA
A realtime terminal-based application done as part of the Fundamentals of Databases Course Project.

# This project is done by @Youssef Hussien, affilated to AUC-Fall 2021

To view the usage and how to use this application enter -h or --help argument after the application name

You selected task number 9

To Identify the country of a given phone number, please enter:

1. The Calling Code
46
2. The phone number
12851561
The country of the phone number you entered is the following:
      CountryName  CountryCallingCode
0  Kingdom of Sweden                46
```

Task 10

Test 1

```
PS D:\AUC\Fall 2021\Courses\Databases\Project\Milestone III-900183162-Youssef Hussien\Python File> python .\runner_code.py -t 10
# Welcome To GEOPEDIA
A realtime terminal-based application done as part of the Fundamentals of Databases Course Project.

# This project is done by @Youssef Hussien, affilated to AUC-Fall 2021

To view the usage and how to use this application enter -h or --help argument after the application name

You selected task number 10

To Identify the country of a given city, please enter:

1. Capital City Name

Cairo
The country of the capital city you entered is the following:
    CountryName
0  Arab Republic of Egypt
```

Test 2

```
PS D:\AUC\Fall 2021\Courses\Databases\Project\Milestone III-900183162-Youssef Hussien\Python File> python .\runner_code.py -t 10
# Welcome To GEOPEDIA
A realtime terminal-based application done as part of the Fundamentals of Databases Course Project.

# This project is done by @Youssef Hussien, affilated to AUC-Fall 2021

To view the usage and how to use this application enter -h or --help argument after the application name

You selected task number 10

To Identify the country of a given city, please enter:

1. Capital City Name

Tunis
The country of the capital city you entered is the following:
    CountryName
0  Republic of Tunisia
PS D:\AUC\Fall 2021\Courses\Databases\Project\Milestone III-900183162-Youssef Hussien\Python File> █
```

Test 3

```
PS D:\AUC\Fall 2021\Courses\Databases\Project\Milestone III-900183162-Youssef Hussien\Python File> python .\runner_code.py -t 10
# Welcome To GEOPEDIA
A realtime terminal-based application done as part of the Fundamentals of Databases Course Project.

# This project is done by @Youssef Hussien, affilated to AUC-Fall 2021

To view the usage and how to use this application enter -h or --help argument after the application name

You selected task number 10

To Identify the country of a given city, please enter:

1. Capital City Name

Ankara
The country of the capital city you entered is the following:
    CountryName
0  Republic of Turkey
```