

This is a Pokemon “Do All” program that can be run from the command line. It provides several functionalities such as searching for Pokemon by name, type, or stats, comparing Pokemon, visualizing Pokemon stats, adding and removing Pokemon.

To run this program from the command line, you need to have Python installed on your machine.

Follow the steps below:

1. Save the program code to a file with the name `pokemon.py`.
2. Open a command prompt or terminal window in the directory where the `pokedex.py` file is located.
3. Run the program by typing the command `python pokedex.py pokedex.json`, where `pokedex.json` is the file name containing the Pokemon data in JSON format. The program will create a Pokedex object using the specified file.

Once the program is running, you will be prompted with a menu of options to choose from. You can type the number of the option you want to select and press Enter to execute it. The available options are:

1. Search for a Pokemon by name.
2. Search for Pokemon by type.
3. Search for a Pokemon by stats.
4. Compare two Pokemon.
5. Visualize a Pokemon's stats.
6. Add a Pokemon to the Pokedex.
7. Remove a Pokemon from the Pokedex.
8. Quit the program.

Depending on the option you select, the program may prompt you to enter additional information such as the name of the Pokemon you want to search for or the stats you want to search by.

The output of the program will depend on the option you select. For example, if you search for a Pokemon by name, the program will display information about the Pokemon, such as its type, HP, attack, defense, special attack, special defense, and speed. If you compare two Pokemon, the program will display a comparison of their stats. If you visualize a Pokemon's stats, the program will display a bar chart of its stats.

Files:

- README.pdf
 - Our readme
- codetest.py
 - A place to test our code so we don't need to mess up are main code
- pokedex.csv
 - This is used for our visualization
- pokedex.json
 - The main thing that are code uses
- pokemon.py
 - This is the main code

Pokemon Class:

Method/Function	Primary Author	Techniques Demonstrated
<code>_init_</code>	Samson Mulugeta	

Pokedex Class:

Method/Function	Primary Author	Techniques Demonstrated
<code>_init_</code>	Samson Mulugeta	with statements
<code>search_by_name</code>	Samson Mulugeta	conditional expressions
<code>search_by_type</code>	Samson Mulugeta	comprehensions or generator expressions
<code>search_by_stats</code>	Kyle Duong	Optional parameters and/or keyword arguments
<code>compare_pokemon</code>	Samson Mulugeta	F-strings containing expressions
<code>pokemon_visualize</code>	Peter Zheng	visualizing data with pyplot or seaborn specifically <code>plt.subplots</code>
<code>add_pokemon</code>	Peter Zheng	Sequence unpacking
<code>remove_pokemon</code>	Peter Zheng	<code>Read_csv/to_csv</code> (method not used to demonstrate technique but as pair with <code>add_pokemon</code>)
<code>get_all_types</code>	Kyle Duong	set operations on sets or frozensets
<code>print_all_types</code>	Kyle Duong	use of a key function (which can

		be a lambda expression) with one of the following commands: list.sort(), sorted(), min(), or max()
get_pokemon_name	Samson Mulugeta	
main	Samson Mulugeta	
parse_args	Kyle Duong	the ArgumentParser class from the argparse module