

**Question 3:-** Write a program, which would download the data from the provided link, and then read the data and convert that into properly structured data and return it in Excel format.

Note - Write comments wherever necessary explaining the code written.

Link - <https://raw.githubusercontent.com/Biuni/PokemonGO-Pokedex/master/pokedex.json>

Data Attributes - id: Identification Number - int num: Number of the

- Pokémon in the official Pokédex - int name: Pokémon name -
  - string img: URL to an image of this Pokémon - string type:
  - Pokémon type -string height: Pokémon height - float
  - weight: Pokémon weight - float candy: type of candy used to evolve Pokémon or given
  - when transferred - string candy\_count: the amount of candies required to evolve
    - int
    -
  - egg: Number of kilometers to travel to hatch the egg - float spawn\_chance:
  - Percentage of spawn chance (NEW) - float avg\_spawns: Number of this pokemon on 10.000 spawns (NEW) - int
  - spawn\_time: Spawns most active at the time on this field. Spawn times are the same for all time zones and are expressed in local time. (NEW) - "minutes: seconds" multipliers:
- Multiplier of Combat Power (CP) for calculating the CP after evolution See below - list of int weakness: Types of
- Pokémon this Pokémon is weak to - list of strings next\_evolution: Number and Name of successive evolutions of Pokémon - list of dict prev\_evolution: Number and Name of previous evolutions of Pokémon - - list of dict

**Ans:**

```
In [1]: import requests
import pandas as pd
```

```
In [2]: # Retrieve the raw JSON data

def json_to_csv(link):
    response = requests.get(link)
    data = response.json()["pokemon"]

    # Convert JSON data to DataFrame
    df = pd.DataFrame(data)

    df.to_csv("Output.csv", index=False)
```

```
In [3]: link = "https://raw.githubusercontent.com/Biuni/PokemonGO-Pokedex/master/pokedex.json"
json_to_csv(link)
```

```
In [11]: df1 = pd.read_csv("Output.csv")
df1.to_excel(r"C:\Users\hrush\Downloads\convert.xlsx")
```

```
In [12]: df1
```

Out[12]:

	id	num	name		img	type	height	weight	candy	candy_count	egg	spaw
0	1	1	Bulbasaur	http://www.serebii.net/pokemongo/pokemon/001.png		['Grass', 'Poison']	0.71 m	6.9 kg	Bulbasaur Candy	25.0	2 km	
1	2	2	Ivysaur	http://www.serebii.net/pokemongo/pokemon/002.png		['Grass', 'Poison']	0.99 m	13.0 kg	Bulbasaur Candy	100.0	Not in Eggs	
2	3	3	Venusaur	http://www.serebii.net/pokemongo/pokemon/003.png		['Grass', 'Poison']	2.01 m	100.0 kg	Bulbasaur Candy	NaN	Not in Eggs	
3	4	4	Charmander	http://www.serebii.net/pokemongo/pokemon/004.png		['Fire']	0.61 m	8.5 kg	Charmander Candy	25.0	2 km	
4	5	5	Charmeleon	http://www.serebii.net/pokemongo/pokemon/005.png		['Fire']	1.09 m	19.0 kg	Charmander Candy	100.0	Not in Eggs	
...	...	...	...		...	...	...	...	...	...	...	...
146	147	147	Dratini	http://www.serebii.net/pokemongo/pokemon/147.png		['Dragon']	1.80 m	3.3 kg	Dratini Candy	25.0	10 km	
147	148	148	Dragonair	http://www.serebii.net/pokemongo/pokemon/148.png		['Dragon']	3.99 m	16.5 kg	Dratini Candy	100.0	Not in Eggs	
148	149	149	Dragonite	http://www.serebii.net/pokemongo/pokemon/149.png		['Dragon', 'Flying']	2.21 m	210.0 kg	Dratini Candy	NaN	Not in Eggs	
149	150	150	Mewtwo	http://www.serebii.net/pokemongo/pokemon/150.png		['Psychic']	2.01 m	122.0 kg	None	NaN	Not in Eggs	
150	151	151	Mew	http://www.serebii.net/pokemongo/pokemon/151.png		['Psychic']	0.41 m	4.0 kg	None	NaN	Not in Eggs	

151 rows × 17 columns

In [13]:

df1.dtypes

Out[13]:

idint64

numint64

nameobject

imgobject

typeobject

heightobject

weightobject

candyobject

candy\_countfloat64

eggobject

spawn\_chancefloat64

avg\_spawnsfloat64

spawn\_timeobject

multipliersobject

weaknessesobject

next\_evolutionobject

prev\_evolutionobject

dtype: object