Score

/ 20

Problem

1

2

Total

Max

10

10

Exam 1 – Part 1 – 10/2/2024

Instructions

- This part is worth 20 points total. The exam (all three parts) is worth 100 points total.
- You have 50 minutes to complete Parts 1 and 2 of the exam.
- For Parts 1 and 2 of the exam, you may <u>not</u> use any outside assistance. These parts of the exam are closed book, closed notes, and closed internet.
- No collaboration allowed. All work must be your own.
- You must turn in Part 1 before beginning Part 2.
- Do not discuss the contents of this exam with any midshipmen until it is returned to you.

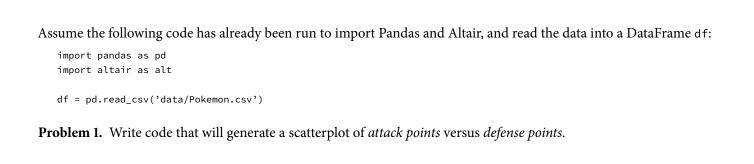
Background

The problems in this part are based on a dataset on Pokemon from kaggle.com. The columns are as follows:

Column	Description				
name	Name of Pokemon				
type	Type of Pokemon				
hp	Hit points				
attack	Attack points				
defense	Defense points				
special_attack	Special attack points				
special_defense	Special defense points				
speed	Speed points				
generation	Generation when Pokemon was introduced				

The first five rows of the DataFrame look like this:

	name	type	hp	attack	defense	special_attack	special_defense	speed	generation
0	Bulbasaur	Grass	45	49	49	65	65	45	1
1	lvysaur	Grass	60	62	63	80	80	60	1
2	Venusaur	Grass	80	82	83	100	100	80	1
3	VenusaurMega Venusaur	Grass	80	100	123	122	120	80	1
4	Charmander	Fire	39	52	43	60	50	65	1



Problem 2. Write code that will generate a histogram of the *hit points* of the Pokemon.