

Quiz 7.5

Name: _____

1. (2 points) Create a function `verify_email` which will use `regex` in order to check if a string passed in is a proper email. Assume proper email must have alphanumeric followed by an `@` followed by alphanumeric and a dot alphanumeric.
Hint: use the `re` package to match on the string with the email pattern
2. (1 point) Why would we use an API over loading in files?
3. (1 point) Assume there is a url `"gov.ca/health/2026"` where a `get` request returns health stats for the year. Assuming the returned data is in `json` format get the `"# covid cases"` from the API request.
4. (1 point) Create a `numpy` array with the values `[5, 4, 3, 1, 6]`.
5. (1 point) Given two `numpy` arrays, `arr1` and `arr2`, create a third, `arr3`, that is the element-wise sum of both divided by 2.
6. (2 points) Assuming a file named `data.csv`, load it into a `pandas DataFrame` and drop all rows with any missing data.
7. (2 points) Assuming you have a `DataFrame`, `df`, create a line graph between the columns `"Time (s)"` and `"Velocity (m/s)"` using `matplotlib`.
Bonus: Label the x and y axis and add a title