**Python – intermediate 4**

1. We use files in python because it allows us to store data that can be accessed by our code for different purposes like reading and writing. Also when keep data in files when the program is terminated the files are saved compared to objects that will be lost.
2. r – open a file for read operation.

w – open a file for write operation. The previous data will be overridden.

a – open a file for append operation. The previous data won’t be overridden.

b – binary mode opening.

r+ - to read and write into a file. The previous data will be overridden.

w+ - to write and read data. The previous data will be overridden.

a+ - to append and read from file. The previous data wonts be overridden.

You can also combine two together.

1. JSON is a popular data format for representing structured data. We use JSON to pass data from a server and web application. JSON has a structure of a dict (key: value).
2. We will use the json module. The main functions are: json.loads, json.load, json.dumps, json.dump.

loads – return a dictionary from the JSON file.

load – will read a file containing JSON object.

dumps – return a JSON from a dictionary.

dump – will write JSON to a file in python.