# Introduction

For this week: Assignment 5, we were provided with an example solution to last week’s submission as starter script. We were told to modify the provided script as required to replace the inner data structure with dictionaries as well as to add the functionality of loading existing data from a txt file. In addition, we were also told to add functionality, in such a way as to allow the program to delete a user’s previous entry. As per the guidelines the finished script must use a list of dictionaries as 2D table and no functions were to be used in the assignment. Lastly, the assignment is to be posted on a public GitHub repository for review, including python script and this Knowledge Document. Detailed below is the process by which the assignment was completed.

# Assignment05

For assignment 5, it was made apparent that it can be easier to work with someone else’s code, but also much more difficult when your own experience in programming is limited. Especially in how you go about adding functionality to their script. Moreover, altering how data is stored i.e. converting a list of lists to a list of dictionaries, can impact how different snippets of code, dedicated to specific tasks, can be negated, and as a whole, throw-off the overall functionality of a program.

**Fig 1.**

![Text

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDsRXhpZgAATU0AKgAAAAgABAE7AAIAAAALAAAISodpAAQAAAABAAAIVpydAAEAAAAWAAAQzuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFJpYyBDaGFwaW4AAAAFkAMAAgAAABQAABCkkAQAAgAAABQAABC4kpEAAgAAAAMwNgAAkpIAAgAAAAMwNgAA6hwABwAACAwAAAiYAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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FcJ4V8Jomqa3JL4bh0Tw/qEEUI0KZIGSSRd2+Zo4maJdwKLgEltmT2rM8Oa3H4N+DtxeWdopEGq3dvbW8cbFVL38kaAIgJIG4fKoyQMDnFLoP+vwuenUVwWm+ONRTT9ak1pFjisIo5INTn0i70+GUuSvl+TKGdnVgOEJ3b1AwabpHjTXr2z8RwRWS6pqOl28c9oBptxppuPMDYQw3BLcFD8wbDZwMEGh6XA7+ivP8A/hPp7HwbqWp3V3DqN/azwwC2TR7mxkheVlVA8EjPIwy+cqPmAIXJrU8HeI9V1i+1Cz1W2ldLZY5Ib/8Asi505Jt2QU8qfLblK5yGIIYdKdtRX0udZRWT4o1s+HfDV3qcduLmSEKIoWk2B3Zgqgtg7RuYZOOBXM+MIvEMHw/vm1m80y+uTPaGFLS0ktUVvtEfDM0khIJxyAMehqbjO8orgbrxjr2itq1hqiabd6hC9jHZy28ckMRa6kMSiRSznCMCSQRuHZTSah4y1zw9dX2k6oNNv9R22hsbi3ie3iY3M5gUSRl5GG1huJDfMDjgjJe7t8vn2Dpf+vU7+iuLbxD4m0+41vSp7ax1nVbPTkv7I2UTW6zhi6eW0byOQQyE534YHHBHNP8A4T6ex8G6lqd1dw6jf2s8MAtk0e5sZIXlZVQPBIzyMMvnKj5gCFyaPT+tbfmHW39dz0CiuT8HeI9V1i+1Cz1W2ldLZY5Ib/8Asi505Jt2QU8qfLblK5yGIIYdK0PGPiE+F/C9xqiQ+fKrxxRR7GbLySLGuVQFiAWzhQScYHND0BauxuUVxvhrxBr2ttqtjNGI5YI0e11SfQ7qzhkLZBQwTMGJUrklXwQw6YrL8JpfRfB24j0NrHS7m1mv4wyQTSRfJcShmVWm3gtgn75wT3HFKT5YtjSu0vOx6NRXlcz+Ipfgla3erahZalJNb6dJbgW8kL7jLEf3srSSbycjLBR3ODnFamoeNta8OW+vRa5HY3l1YLZtbPZW8qKxuXMaq0eXZtrKTleWHRQaqS5ZNdiYvmSfc9Aorzg+PNftvDfiO6ksPtU2mWyT2l3LpF1p0NyWJBiMc53ZUjlgxBDDpiur0SbxL/aVzD4hgsWtjCksFxZAqEYlg0LBnJcqAp8zChs/dGMUW/r+v6/AL/1/X9fczcoqG8s7bULOW0v7aG6tpl2ywzxh0dfQqeCK5P4VwRW3gXyLaJIYYtS1BI441Cqii8lAAA4AA7Uhva52VFFZ2v6rHomg3eoSzQwLCmRJOGKgk4HCgsxyQAo5Y4A5NJ6AtTRorkPBXim/1vVNW07U9sr2KwyR3A0u408usgb5TDOSwwUPzAkHPbBrr6pqwrhRUN4lzJZyrYTQw3JUiOSeIyop9SoZSR7Bh9a5X4WKkXgKGGO3t7cQXt5CUthIIyUuZFLASO7DJGcFjjPHFIb2OwoorH8Va3JoGgveW8KTXDzQ20KyNtTzJZFjUsf7oLAnHOBQBsUVw3hGLUoviR4pXWbu1u7n7LY/vLS1a3TbibA2tI5z77vwruaBBRWfr13f2Ph++utHsvt99DCzwW27HmuBwP8A63esvwdrs2tWt0L3UYLq6t5FWSFNKn0+SDKggPFM7Nz1DcA9s4o3HsdJRWL4s1yXQNB+02kUct1NcQ2luspIQSTSLGpbHO0FsnHJAxXNat4v8Q+HbXxBa3y6bqOo6dp0eoWk1vC8Ecqu7J5bxtI5BDIfmD4IboMcn9fr+Qf1+n5nf0Vh6JN4l/tK5h8QwWLWxhSWC4sgVCMSwaFgzkuVAU+ZhQ2fujGKua9JqUOhXc2iNaLfRRl4vtoJibHJViGG3IGN2eM5wcYoeiuwWrsjQorlPBXiq78ZJdapHFBbaSpWGCBgTc+YFBdpCGwq5OFXGSAGzhgKm+Hmny6X4C06znglt5I/MzFMpVlzKx5B570NNbiTvsdDcXENpbSXF1LHDBEheSWRgqooGSSTwAB3qQHIyORWToHhyx8O+H10ez3zWqtKx8/axbzHZ2BwACMse3Ssr4fg2mmano6FzbaPqUtna7/4YQFdEz3Ch9g9lFC1dvn/AF943or+dv6+46uiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAxPGGhy+I/C9xpdvIsbzSQksZGjwqyqzYZfmBwpwR3xyOtEPg/RIdLvLA2000N9j7U9zdzTSzAdA0rsXIHYbsDnHWtuijYNyvfWUWo2UlrcNOkcgwzW9w8DjnPDoQy/gRWLp/gPQNM02ewtoLxrS4kWWSGfUbiZd4k8zcA8h2kv8xIxuPXNdFRQBUTS7OPUbq+WAfabuJIp3LEh0TdtGCccb27c55qjo/hTSdBtZbXTY7lbWVBH9nmvZpokTn5USR2VBzjCgDGPQVs0UAYnhTRrzw9pB0m4uEubS0fy7CXJMn2fA2pJnjcvK5HUBTwc1o6jp1rq1k1pqEXmwMyOU3FclWDLyCDwVBq1RRvuGxXvrKLUbKS1uGnSOQYZre4eBxznh0IZfwIrFsPAfh7TtJvNMgtrmWxvc+db3V/cXCElixZRI7bWLEtuXBzznNdFRQBg/8IXoz6Td6Zci/vLS82+al5qlzcEFTlSrSSFkIODlSDkA9hRZeC9F0+O+FpHeRyagiJdXP9o3DTyhM7czF94IyRkNnGB0AFb1FAGHB4N0OHTL2wa0kuYdQx9qa8uZbiSXAwuZJGZ/l/h5+U8jBq3pGhWmiLKLOa/k80gt9t1G4usY9PNdtvXtjNaNFAFe/sLXVNPnsdRt47m1uEMcsMi5V1PUEVl2/g/SLfTprEi+uLaZo2aO81O5uMGNgy7TJIxXBAOBjOOc1uUUAZWoeGNH1X7f/aFilwNRhjguQ7N86oWKY5+UqWJDLgg4OcgYqx+CPD6aXfWEtk91DqAAunvLmW4ll2/dzLIzP8vVcN8p5GDzW/RQBi2fhLSbGzvLe2W8U32PtFy2oXDXL4GFHnlzIAOwDcZOOppsHg3Q4dMvbBrSS5h1DH2pry5luJJcDC5kkZn+X+Hn5TyMGtyigDO0jQrTRFlFnNfyeaQW+26jcXWMenmu23r2xmrGpabZ6vps1hqVulxazrtkjfoR/MEHkEcggEVZooeu4bGNbeFdPtbC5s4rjVmiuseY0us3cki46bJGlLJ77SM96TQfCWk+GoJ4dJS7WGclpIri/nuUySWYhZXYAksSSMZJ5zW1RQBz9n4H0Kw02TT7eC6NlIYyLaXULiSOPy2DII1ZyIwCBwuBwB04q7e+HNJ1Fr9r6ySc6hCkFzvZiHRCxTjPBBYkEYOcHPArTooAxIvCOlR6Zd6fJ9vurW8AWZL3U7m5yB6GSRiv/ASM1t0UUAV76yi1Gyktbhp0jkGGa3uHgcc54dCGX8CKyNK8LWfhXT7tPDEEzSShnW3vdUuJImkJLE5cybNzMSWVSTnJzW/RQBzngLwqfBvg+20dplldHklfy87EaRy5RM87RuwM9cZ4zWtq+kWOu6VNpuqwefazgb03sp4IIIZSCCCAQQQQRV2ih6h5mFYeGbLw7Hf3Xh+0Muo3caiR76/mc3DJnYJJX8xuNxGcEgYHIAFQ+AvCp8G+D7bR2mWV0eSV/LzsRpHLlEzztG7Az1xnjNdHRQBXvrKLUbKS1uGnSOQYZre4eBxznh0IZfwIrI0rwtZ+FdPu08MQTNJKGdbe91S4kiaQksTlzJs3MxJZVJOcnNb9FAHOeAvCp8G+D7bR2mWV0eSV/LzsRpHLlEzztG7Az1xnjNbGqaXZa1pk2n6pALi1nADoSR0OQQRggggEEEEEAg5FW6KHqHmYVh4YsfDsd/deHbFX1C6jUSPd3krG5ZN2zzJW3t/ERuwxxgcgACHwF4VPg3wfbaO0yyujySv5ediNI5comedo3YGeuM8Zro6KAIL2zjv7KW1naZI5RtZoJ3hcfR0IZfqCKqaP4f07QRP/AGekxkuGDTTXN1LcSyYGADJKzMQB0GcDJx1rSooAqarpVjrelz6dqtslzaXC7ZI3zz3BBHIIIBBGCCARgis2DwZocGnX1l9lmmj1DAupLm7mnmmA+6DK7l8DsN2Bk46mt2igNwqlq+j2WvaXLp2qRNNaTY8yJZWQOAc7SVIJU9weCOCCKu0UAULbRLCz1e81O1gMV3fKi3DLI22TYMKSmduQON2M4AGeBS6No1h4f0qLTdIg+z2kJYpHvZsFmLHliT1JPWr1FAEN2bkWU5sVia68tvJWZiqF8fLuIBIGcZwDVDw5oi6Bo62hmNzcSSPPdXLDBnmc7nfHbJPA7DA7Vq0UAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAH/2Q==)We started with the provided code as shown in **Fig 1** here. It’s difficult to see in the figure, but our instructor left several pseudocodes listed as: #TODO for us to jump in and add our script to the program.

The first few: ‘TODO’ items are to add the functionality of loading existing data (from a txt file) as well as to add the functionality of deleting an entry.

However, before doing that, we first needed to update the code so the data being stored was saving to a 2D list of dictionaries, rather than a list of lists.

Fortunately, our instructor provided an example solution of how to convert ‘lists’ data types into ‘dictionary’ data types in the form of a lab module. This was helpful in replacing the inner data structure of the CDInventory\_Starter script, so data, a user was saving, would be stored to dictionaries rather than lists.

**Fig 2.**

![Text, letter

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDsRXhpZgAATU0AKgAAAAgABAE7AAIAAAALAAAISodpAAQAAAABAAAIVpydAAEAAAAWAAAQzuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFJpYyBDaGFwaW4AAAAFkAMAAgAAABQAABCkkAQAAgAAABQAABC4kpEAAgAAAAM2OQAAkpIAAgAAAAM2OQAA6hwABwAACAwAAAiYAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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before even touching the functionality of what needed to occur in the program, I got work modifying the internal structure.

![Text

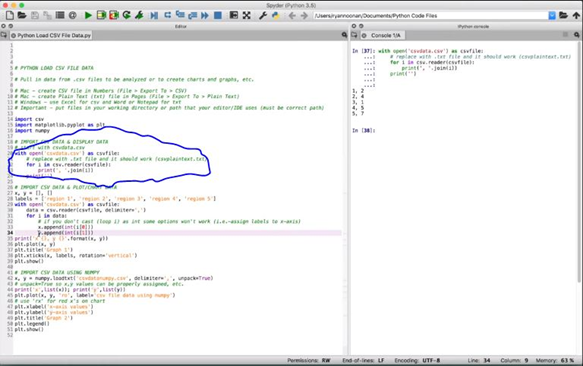
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i18tgFw0A3A5/56zR+nbP4Vnz2yxXFyqTIyQMQGLAbwDjgqSvT0Yj0Jpi20728k8cDtBGQHkVSUUnO0E4wMkdOKSaCW1naO4jaKVDhlkXYynvweRUlI1oUjtfCd1cIkM009wkMjtAHaBSr8HePlLYBBTspyQSAUkVLnwlHNKtvDPbXBjjfylVpwVX5MrySp53Pjg4BOMVTtdSe30y5sGt4Zop2V8uG3RuoIDLgjnDEc5HPSkn1IzaXb2KW8EUULs5MZOZHYAEncT2A4UAU7isys8exUO9TvGcA5K9sH0NX9JtY5NYt45jHKm5XOyVQOoOPm6+69TWbninK7I+5GKt6qcGhWG1oaOr20EVxBFBHHCBbqT/pCSZJ56qMZ5/HqODUukWcDzWUlxDLcGe52IiEBVClSSwIO4c5xx0rLUTXM6Iu+WVyERQCzMeAAO/oB+FWrJdUeSS100XZl+88MG8twRyVHIwccnoaSstBMepX+wrlYt6nzkEgyCr8MQcYyCMf3qbcwWtpHCjJNJLIiSlhIFXDDOAu0544znGc8cVKsOufYJfLj1H7HGWWTaH8tMfeDY4B65z/AFqNbXWH0nesF8dOHzA7G8jGc5zjb170fMNB2rraJLEttbyQsYYmO6QEEGMHoFHPvmoLO0We52OSyLG0jCI5LAKTge5x/nFQtdTyWyQSXErQx/cjLEgfQZxTUdopVeN2R0bKsGxz65H0/Snux9DXtbKxe+s5GMyRTAusTqJMlSQcn5QVOM5x7e9Z106XN0xjdCgXAYwpCP8AvlCQOfc0x7m4lnE8lxK8vTzGclvzpkccszFYo3dtrNhQWwACSfoACSfY0tO4jV0i0geaxe4iknM9ztREICqFwSWBB3dc4GOlLa6Vbz2JeQmOdo5JYsOTkLnnbsxjIxy4PPfjObDd3MCMlvcTRqx3MqMRux0yAeeaFvbuOEwLcTLEesYc4ORgkjoc8j3p8yAt34sl0+zMNtIkjREhzKCOHYHcAoLdDzkdvqZdQ0q3tbEzRMwlimEMqGQvhiCSM7FGRjsT161nfarkWptvPl+zk8xbzsz646U6W9u7hQlxczSgY4dy3TgdT70aWDbUW1hje6VZ/nQRs7bH5OFLYz68VZSCwMMt15dy0CukYjEihgxBzltpBGVIGAM59uaDrNAcFJIyyBh8pBKsOuPQg9e4NTWkt3HK32GSdXYHd5BYEqBknjtxk+mKLrcDUPh9DOUjlbKzNEQwALkFcDrwcFifcViyhFmcRElAxCkkcjp2qaB715BFZtOzgs4jiyTkDk4HfAOT6A1XPuSfrSuMTOaP4cdvSjBPTr6U9oZEUM0bqpxgleuRkH8Rz+NAxlLQBnpz7ClKMqozIwVgWU7ThgCRxmgBKT9KcsbspKozBV3MQM7RkDJ9OSB9TTT1IxzmgQHnr65o69aMY68fhR3xjkdcc0DCinFGVsOrDIDDjseQfyNNHIzjtn6UAFFLg+hx9KTB560AFFLgDr0z34pP/wBVABRUwtbj7Ibn7PL5IH+t2Hb+eMfrTnsblbiODyWaWRA6InzFgRkHjPagRXopzo0UjRyqUdSQysMFcHBH1ptAz0TTP+QTaf8AXBP/AEEUUaZ/yCbT/rgn/oIopmRh+GFtpNMuIrg2NqWkyb24NtLIgCjjyZfnI5OCmDknhiAAqX89z4GjtoX0zNvPKJopo7dZRGUjwy7gGZjtYZXLHAz0FYNnpd/fRytZWNzcxQ8ymGJnEY/2iBgdD9efc1O+g6iNLh1GO1mmtpIjK00MbMI13Mh3nGF5QnrjH6O7Ksr6l7VNSghsbeytLbT3iksYRK6woZFlwMneMMrDAGMgdcjk0/xHfw3vidhp9tYrJ56lbkSFhKcADeXcx4zjPAHUGqLaHcQaBJqd7HdWw3Ri332riOZWySRIRtAHB6nOc9qNT0J9OuRaLe213eFxGbW2SRpASP8AaQKeo6E8mm9kJWL3iDTvP123+zPpYFzbxhvIu7ZYlkWJfNyFYKoLZ64yema1WSwHjrWJ7t7O587zZrL/AEqAxMS44LNvjB2b+HHfscGubv8ASEstXjsJbswkxo0zXVtJEYWI3bGXaW46AgHPWoZ9Iu4tbn0qGH7VdxyPFstlL7ipOSoxk9CelK7toO35HVLqWnpHqVrLHbWcN7dQRTQRTxTgL5bgyL5YCkB9rnaMA8CtWB9Hm8R3s93dabdQXGoFJGmntlVYtq5cM6M7hs4/dlcFeSOo83uLea2meC6ikglQ4eKRSGU/TqOPb1qPv6E+2M8emf8A9VPm0QuU77TbvRE0q0gmi0hiVjWR5Y4jIN3n7yWPIOFiHPTI6Egmhqj6YvhUR2VnaTI9vFic3duJo5CQXJj2CYncGGCxXByOAMch75I4yPUCtKbQ7qFcs0QX7GLoMpONuBx0+8Mjj6eoqZSSST00KULbFa2e0W7tmuFZ4wwM6sN2eecAMpIxjjcp9+9XdbuNGnaD+xoDCBkyYgeMnOMfenlz39Px7Un06+jWF5LO4RLgjyWaFgJAem3169v/AK1JLp97C8Uc1ncRvNjyleJgZM9NoOM5z29aV7odtbjY7hrS+W4sSyGN90TOASD2yOnWtSGNrrwwkFlPCj/aHe5jknWJnwF2HDEb8fP0yeT61k3FtNZzGK7hkgkwCUlQowB6HB55qI89ecc89aUveQmjqrZobOTSL57qAW9jb+YVjnV5JHLM+zYMsCdwBLADGe+KoT2nl+H7KDz7MvNctJKUvInK5VQuQGyB94nI4zzVOLRL64s/tCW7eVhm3GNhwvORweucA57GqWCfVe/IPH+FQ6XchR6nSalqGnuzvbwWSRx6iPKSKNMmJRySQMlWJB5yOuKWKLSodTWxlW2nVZZpt6yqEOFPlR+byAOMnt8wHqKwjZMtvE5lTzZwGS3G4yMCcDoMds4z+FLc2K296tvJN5R2KztNC8flnGcEYLdeM4xTUNA5bG5cXlnFPeXD2Onq0NqEiiEtvLvdpBhv3QCEgA9B9etSW12kes6qtidOR2tlSPzI4Ujd8IjYLDaoILnAIB9K52SzuFv5LNEeadGZNsQLbiODtGM44qCSN4ZXilRo3U4dGG1gccgg9DS5Lbj5NDotPMItUuWbSwzXLG8a4SI7EAGAkR4wcn/VgknHSoJ9StbKytY7CyspDIsjy+bEsrAF22xkkZUhQDxg5I+lZEVpc3CyPb280oiHztHGW2/UjipRY3cVvFdwo7R7fMWSLcRGASASccHIJFP2dg5UaNz9kg0e3ulhh866sxCqbAcbXKmTHqQigHuS34Z0kP2Ca1kWe2nZ41mGwiUIT/C4I+8O4/nUtxb3dxbPqOpPctK7JtknjZvNBHXec5xxx39sVVltbiKGOSeCZI3GVd0IDfQ9/qPyp8vcpLob+tSfbNec3E2n/YYtzLLbG33GEDaACv8AFtA2qeQcYA5IksrwxanqkVsdLi225itgRCUb5go+d+DlCxOTk981gDTL5pkjNncb5ASgMTZYdCRxnFQTRywzNHOjxyKfmVgQwPXkdffn1qeSzJUVaxN9sniuppY2SOSRWRjGqgYIKtgAYGQT0x14qEeV5LZ3eZkbcYxjvTKCKtKyLsSqYQse4uH35fgMAOMYB6n+ftW1rd5bzWEccEiSHzFJVLaNOFjUZ+Uk9f6jsKwKMcYqgt1Luni3N6N20gI2zzyNvmbTgHPGM+v48VqAwvdW3nSWcjxWrZjTyQjN5h+QEgoDg5yAc444Oa5/rR9aBW6nQefEmoXsNmbILLAjIWERRn+QsNzDHZuCAMjpTNFW12k3xtWDz7ZA7Qosa4GSCwJIJJGEIxjqKwfp0pckHIPPrRcLXHEKoYYYMDxxxjv756Y+takvl/2PGR9miaMLhB5MrSHI5yPnXjkg5FZAAAwBgegoPPXn60hm5dTR3V1ZPdtaG1IhEnlrGHUhBuDBfnA4PoPTtSSNbxyM0ws2uUtn3BFQpu3jbgD5S2MdOPXmsTP/ANb2paYrGxpskM8009wlqrgKBGRFGCOQW+dSBjAyFHU/Sr1vBaI87wQ27qbuQRqyxMsijbtUNIeBk9Vyee3GeYPI5GfrViG+u7aMpb3U0SMclUkKg/gKYNGqrW0elsDBBJKVkE+6aJGWTJ6KRuOBg4U9qxSV2g4YnOSG6EfnnmmZPrR9KkaRrX91FP8AY1t7e2RljQ7g7YQ5PyncxXHPUj8abqNsZNQjEbWmZI0z5U8QTcEG4/KcLzn0z2rLwKPX3603qFrG9tt18QXrzNBKX3SW4E8e1iW9TuUfLu4Yf0rM1NkfUJDFEkQ4yI5Vdc465UAc9eBiqn6fSikJKx6Jpn/IJs/+uCf+giijTP8AkE2n/XBP/QRRTIOc0jWNPtbOxF2byGXTrtrqL7MikTE7MAksCh/dgbgG4PTjBtDxLYrb2s8jXYurS3uYktBGohDTNJlg+7jCuMjbztAz6cp37flR/jT5mXyo3TCbDwpex3E9sZryWFokhuo5WwokJJCk7fvDg46/Wk17X5Nd1ZjcXt7/AGaX3RxSMX8lcYJVN23I5PUZrDopXCxu6tc6NfanayQXd8sCW8cMha0TcmyNUUqvm4O4rkjK7c960D4j0yLxLq15C1w1tqSOC81nFI0LFwwHluzI4+UDkg857VyR5/z0oPPWhNq4cqNHVNRF3qstz5guV8sRK8lokGAECj92h2rgYxg9AKt6R4pvNGsGtbeLMbMXOLq4jByOeI5VXt3BPNYmT60nfNF2tgsmiTzP3LIVQksDuxkgjggegNbg1638m6jkhlbzLZI4WIGVbYitnnodg9+BWBn+eaTAqJwU1qXGTizo/wC3LKO+kuovtTm5vY7qZXRQItrbsA7vmPOAcL9OeK1jrUFs0LXEbyMs87uxVG+WVQoPzZBIOTg8HPvWL/P1oHHTj6VLhFqwczNLUNRE9xEYpFuY44jGiyWiW+3JJOFQkdTnPck8etBJPLV12ody7csOR9KZ9KP0+laRSirITdzVj1S3TSWtjZxGQxsobDYySpz9/A4UnpjOPU5zQ20IFAG1iwdRgn8aZRQKxoXmqTX6wRXF1ctEqKsody25hnLYJwTj37UXkljcXULJNOI1jWNyYVDDaoXIG/BzjpkYrPyfU0UwsbH9pWi6peTx+Y0V4pOZLdGMZLbh8rHDDj1HXpxVG8uvPumkDecu0IhaFYwAAABtUkAAccHtVX/9Z/xo757+tFwsadleW0UMHnGdJLWczIYkBDnjjJI2/dHPPU1KuqW/lQygzmaGOVViAHlkuzc7s56N0287RzWP6f4UentRcLGiE+y6TKsjxMZ3jKIkquSAGPIBO0cjqO9WbrWY3uEnizjz1naBrVEHBz99fmbHIyR61i0UgsW7g2jXYkjmndGfdKzxqrDnPGG5/HHSq8vliQiF2kQdGdQp/IEj9aZRQMKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAPRNM/5BNp/wBcE/8AQRRRpn/IJtP+uCf+giimZHndL2oooWxoxKKKKQC9qSiihjCiiimg6AKWiil1B7CUUUVS2EgoooqQCiiigYUUUUAFFFFABRRRQAUUUUCCiiikMKKKKYBRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAHommf8gm0/64J/6CKKKKZkf//Z)In **Fig 2.** here (which is the starter code for the assignment) we’d been given the task of replacing a list of lists with a list of dictionaries. This was straightforward.

First, I redefined the variable name to reflect that a dictionary would now be saving user data and changed the brackets from [ ] to { } to denote the data type.

Next, I combed the starter script, comparing it to the provided lab to update the data structure to reflect that now data would be stored to a list of dictionaries. So anywhere in the original starter script something was labelled as a lstRow, that became converted to dicRow. Anywhere in a ‘for’ loop a previous entry had been just: ‘row’, that was updated to row.values. Then finally, any section of code that’d be used to store data to our define table: ‘lstTbl’, was changed over from just a concatenated list to a concatenated dictionary and then appended to lstTbl. Ex:

|  |  |
| --- | --- |
| Original code was: | Code was then changed to: |
| strID = input('Enter an ID: ')  strTitle = input('Enter the CD\'s Title: ')  strArtist = input('Enter the Artist\'s Name: ')  intID = int(strID)  lstRow = [intID, strTitle, strArtist]  lstTbl.append(lstRow) | strID = input('Enter an ID: ')  strTitle = input('Enter the CD\'s Title: ')  strArtist = input('Enter the Artist\'s Name: ')  intID = int(strID)  dicRow = {"ID": intID, "title": strTitle, "artist": strArtist}  lstTbl.append(dicRow) |

With this aside, the program would now save user data into a 2D table list of dictionaries. After, I began to focus on what, as an amateur programmer, I could add to the CDInventory program, that’d satisfy the #TODO functionalities that I could actually incorporate.

For the #TODO item of adding the functionality of loading existing data (which a user had saved from the program) this was perhaps the easiest part of the project. In our previous labs and assignments, we’d been working with saving data to txt files before. So, since I already knew how to save data to a txt file, it seemed just as likely, we’d be able to load data from a txt file. I briefly searched online on Stack Overflow and YouTube to see how others had created this functionality. Eventually, I located a YouTube video created by Noonan R (2017) wherein he provided example code of how to create this functionality as shown in **Fig 3.** here.

In case you can’t see it (as it’s pretty hard to) the portion of code Noonan provided (which I modified with the txt file name) to allow the starter code to import data from a txt file is this:

|  |
| --- |
| with open('CDInventory.txt') as csvfile:  for i in csv.reader(csvfile):  print(', '.join(i))  print(' ') |

As you can see the txt file: CDInventory is opened and then called in a ‘for’ loop wherein it’s referred as a csvfile. The elements can be read then printed which satisfies the requirement for the assignment.

With that criteria operational in the code, next came, what was arguably the hardest aspect of the assignment, which was creating the functionality that’d allow users to delete dictionaries from the lstTbl. Oh boy, did I waste a lot of time trying to figure out this (and technically never really did).

I cannot understate how many hours I spent trying to get this to work. I searched websites like: Kite, Stack Overflow, YouTube, Geek for Geeks and all in vain. Firstly, it must be said, I spent a lot of time with the wrong focus on what the functionality was supposed to be. It was my belief the data to be selected in the program for deletion, was only supposed to be deleting the saved data in the txt file, which I learned wasn’t really possible without two txt files (at least as far as I gathered(maybe there is and I just don’t know)). Since the criteria for the assignment specified just one txt file, it became apparent the #TODO item was asking for the previously saved data in the program itself to be deleted.

I refocused my efforts in trying to figure out how to do this. I know about iteration, so I wanted a ‘for’ loop to reference our 2D list of dictionaries, then search the newly appended dictionaries so a user could input and choose which dicRow would be deleted, using the ‘ID’ key to make their selection. This made sense to me as the key : value pair, was more or less a constant and a user defined value and an integer no less.

The first couple of times I created ‘for’ loops to create this functionality were painstakingly miserable. What was worse than getting error messages was when the ‘for’ loop would execute BUT STILL NOT DO WHAT I WANTED and also provide no feedback. This section of the assignment alone was hours’ worth of reading, retyping, rerunning with no payoff. Every time was either an error message or the loop would run without doing what I wanted. At this point, at about 7 hrs in, I wanted to fling my laptop against the wall.

FINALLY, I got an answer from my instructor, however I must say there’s still something about the structure of it I’m still not getting.

|  |
| --- |
| intIDDel = int(input('Which ID would you like to delete? ').strip())  rowNr = -1  for row in lstTbl:  rowNr += 1  if row['ID'] == intIDDel:  del lstTbl[rowNr]  break |

Above is the code our instructor provided and although I understand it in part, it’d be a disservice to myself to say I understand it fully. It encompasses what I was trying to do more or less but I think because the data type was initially changed from a list to a dictionary (and a 2D table list of dictionaries no less) that that more than anything has thrown me off. To quickly summarize what I’m getting: the defined user variable of inIDDel cast as an integer, the ‘for’ loop iterating through our defined 2D table list of dictionaries, the ‘if’ statement comparing a row key [‘ID’] to our user’s variable, delete line specifying that a lstTbl index is to be deleted and lastly the page break – all that I understand. What I don’t is rowNr = -1 / rowNr +=1 as well as how Python seems to know what’s considered a dictionary key vs. an index. If there’s anything I’ll take away from this assignment, it’s that’s what I need to improve upon.

Anyway, with the last of the functionality provided all that remained was to run the script in CMD and Spyder to verify the code ran correctly which they do as seen in **Fig 4**. below.

|  |  |
| --- | --- |
| Graphical user interface  Description automatically generated | Graphical user interface, text  Description automatically generated |

# Conclusion

I’d be lying if I said this assignment didn’t feel like something of a mixed bag. I definitely walked away with the realization that working with other people’s code can be time-consuming and exhausting, especially if you’re changing the entirety of the data structure and falling down a specific rabbit hole of trying to incorporate specific functionality. Imagining if this had been a programmer hadn’t put in specific pseudocode to inform the next user what they did and what needed tweaking is also something I don’t really want to think about. Yikes. This feels somewhat of a loss for me because even though I eventually did get the program to work, I’d wasted quite a bit of time, hung up on something I’m not even entirely certain of. At the very least I know where I should be funneling some of my efforts so as to improve.

# References

Noonan R. (2017) ‘Python Import Data from CSV and Text Files’

<https://www.youtube.com/watch?v=NNCoOmyRLVg>

# Appendix

Fig 1 – CDInventory\_Starter.py - Example code Fig 2.

Fig 2 – Side by side comparison of script – list of lists vs. list of dictionaries

Fig 3 – Noonan R. (2017) ‘Python Import Data from CSV and Text Files’

Fig 4 – Side by side comparison of script running in Syder vs. CMD