**Q1 Reflective Section**

1-

* Firstly the script handles the arguments passed using getpots if -n is passed the show\_line\_numbers variable is set to true if -v is passed the invert\_match variable will be set to true if other thing is passed it will show an error after that we shift the option by one to be able to access the string we need to search for and the file name and we save each of them in search\_string and filename variables
* Then we check if the search\_string or filename variables is empty and if one is empty the script prints an error and exits
* Then the script searches for the file given if it is not found it prints an error
* Then we check if both show\_line\_numbers and invert\_match are with true the logic of printing the lines that do not contain the search\_string and their numbers runs
* Else if we check if invert\_match is true and if so the logic of printing the lines that do not contain search\_string runs
* Else if we check if show\_line\_numbers is true and if so the logic of printing the lines that contain the search\_string and their numbers runs
* Else the script which memic the basic grep function without arguments run which prints the lines which contains the search\_string only runs

2-

* If I were to support regex or -i/-c/-l options I would add them to the getpots and add variables to be true if they were sent as an argument
* Then I would have added conditions to check if these variables are true and add the logic to memic them like in the real grep function

3- The hardest part was the logic in the conditions to make them work like intended and getpots was new to me but I learned it and I used it in my script