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| Course Code: | DT230B |

Below are descriptions/notes on the approaches I took in the execution of this assignment.

1. Used github for Source Code Management <https://github.com/johnwarde/sasassignment>  
   git config --global user.name "John Warde"  
   git config --global [john.warde@gmail.com](mailto:john.warde@gmail.com)  
   git push origin master
2. At the start I used Powershell to create smaller versions of all the file s to reduce the run times in the early stages of getting the data into the SAS system, in the correct format,:   
     
   Get-Content -TotalCount 40 bills.csv | Out-File bills-small.csv  
   Get-Content -TotalCount 40 calls.csv | Out-File calls-small.csv  
   Get-Content -TotalCount 40 callSummaries.csv | Out-File callSummaries-small.csv  
   Get-Content -TotalCount 40 demographics.csv | Out-File demographics-small.csv
3. For all arithmetic division, used the divide() function to cater for the division by zero scenarios.
4. Scanned outputted data for anomalies in the data and added statements to convert and make the data consistent. i.e. some true/false values had ‘t’ and ‘f’ values these were converted to ‘true’ and ‘false’.