**Multi-Threading application**

The Console should give the following options, every time

1) Add Employees

2) Get All Employee Id's

3) Get Employee Information based on Id

4) Update Employee information

5) A daemon should consolidate all the same transaction files in to one file.

1) Option 1 should allow user to add employee, employee id can be auto generated

   a)In this option user should be able to add more than one employee at a time.

   b)Each Employee should information should go to a separate file or files.

   c)User can give dynamic tuples

     Example: When user selects option 1 Some thing like the following has to happen

 Please enter Employee Information

 [Then user will enter the following][Employee Id has to be auto generated]

 [Employee Id should be the first line of a file with time stamp]

 Name:NagaRajan

 Job:Software

 [Name , Job are dynamic and after : are values . user can add any number of dynamic variables]

 The Above information has to go to a separate file. The files may look like as follows.

 1335:12/07/2016 09:78:000

 Name:NagaRajan

 Job:software

2) Get All Employee Id's from the files and show them in console, these id's should be unique

3) Get the Employee information based on Id, consolidate all the files with same id and give latest results

4) Update employee information based on id, will add a new file with the same transaction id with latest time stamp.

Say a files with id 1335 is already present

1335:12/07/2016 09:78:000

 Name:NagaRajan

 Job:software

    If user selects option 3 to update employee with id 1335, the apart from already existing file a new file will be created with updated and more info

1335:12/07/2016 10:78:000

 Name:NagaRajan

 Job:IT

 Designation: Senior Software engineer

    While getting information about a employee say in this case 1335. the above two files has to be consolidated and should give the result

    so after consolidating the final output will be

    1335

Name:NagaRajan

Job:IT

Designation: Senior Software engineer

While a file of a employee id is being updated, reads has to wait.

5)A deamon thread should consolidate all the version's with the same employee id in to One file.

There should not be race conditions,dead locks etc..

user should not wait for response, generate a request id and give the results along with time stamp of completion

when the request is complete, while the request is processing user can do other operations

Reuse the code where ever possible.

freeze the code by Monday 11:15AM Monday