Name of the experiments white a Java application which will count the number of words of popagraph. You must to the counting using three threads.

Introduction: We have to define a class that will do
the counting work. Then we have to define our own through that
will use the word counter down to count the words in a paragraph.

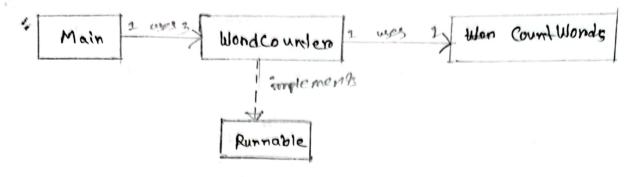
## Objective:

O to learn how to use synchronization

Analysis & After analysing the problem we have tound following components of the problem. . . countwords

- O we will have to define a helper day that will open the file we want to rocad then it will stone all the contents into a buffer and then is it will need one wond at a time from the buffers.
- On alars that implements runnable interface, workcounter, which will use the count words clay and count as the words from it.
- O a main class, which will contain the main method, which will demonstrate ours solution.

From above analysis the conceptual dan diagnam is given below,



Figures: conceptual alon diagram

Design & Atten analysing the problem, the daign description of the solution is given below.

o class Countwoods of the helpen class that con rocads the foragraph world

O text: contains the whole text of the paragraph of tender: current index into text storing

1 Mahods:

o neadNextWorld: neads the next world from buffer and neturns the world.

in a paragraph.

1 Data Memberso

O countwoods: a countwood typed object

o for agraph To Be Read of to what perscentage of pain agraph has to be seed by the current thread

I Mathods:

o nun: overniden method from Runnoble intentace. this method counts all the words

O class Main: the main day of the program

DMethods:

o main: the main method of the program which will simulate the solution

From above design description the design anchitectural day diagram is given below,

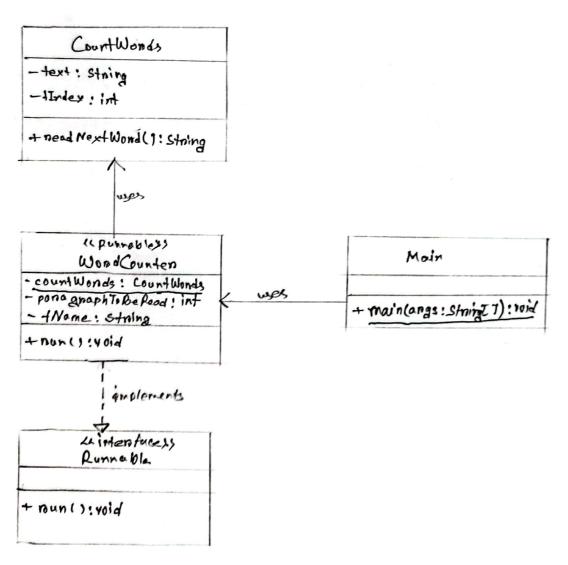


Figure-2: anchitectures dass tiogram

From above abesign tesoniption, the psuedocade of the methods are given below:

Countwords :: nead Next wand ():

needs next word of the poppagnoph and redunns it

Word Counters : nun():

count wonds and proint counted wonds number

Main: maine ::

simulate the colution using three threads. divide the whole panagrouph into 3 part by giving the per numbers of what percentage of panagrouph attreed will need.

Implementation:

\* implementation is aiteched with the report \*

Conclusion: we canaded a helpen day to sead the paragraph word by word, we created onother class to actually, count the words. And finally we corrected the main days that simulated the solution wing those threads.