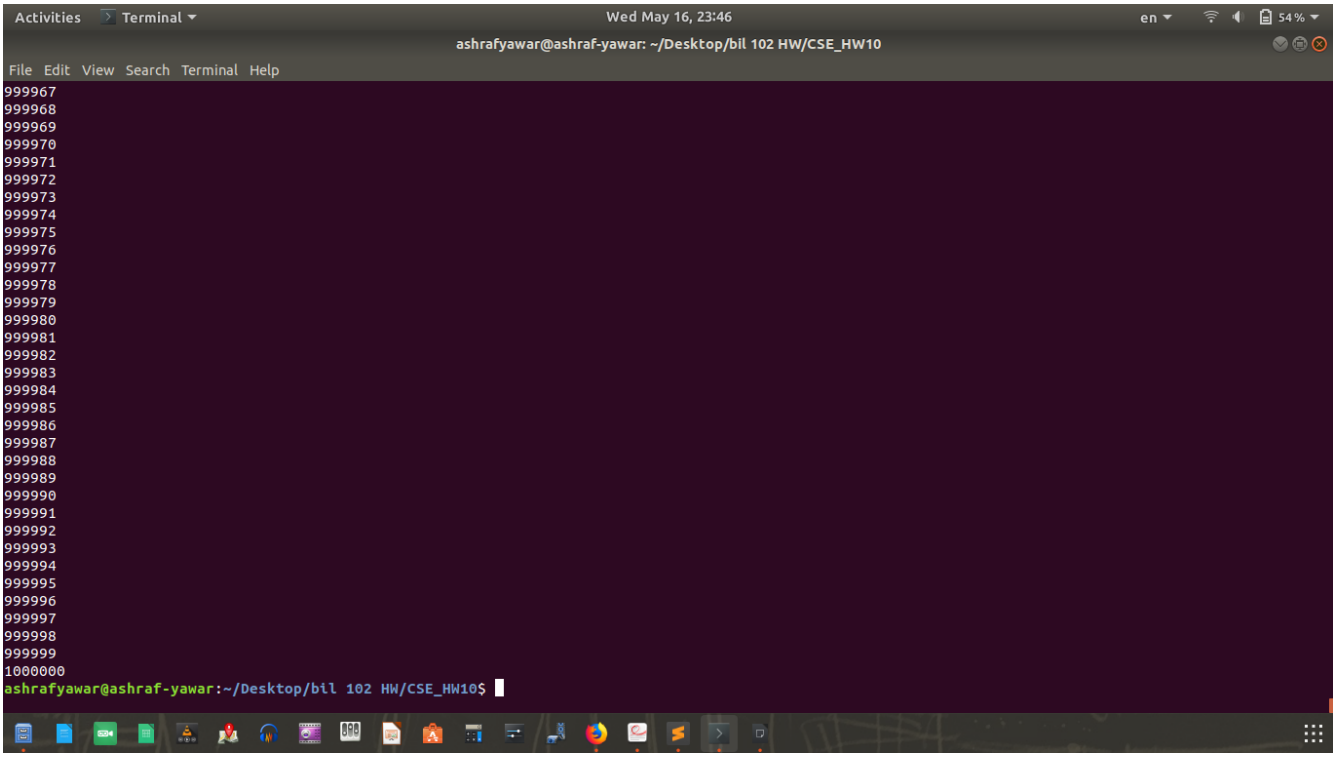
HW10 screen shot with explanations

in this home I has used some usefull functions startinf from the first functions :

in the first part we are asked to write a function which reads a given file a text file and reads it's contents and I read read is by ignoring the after commas in the file and converted them to the intger using (atoi) functions which is available in stdio.h .

>>>

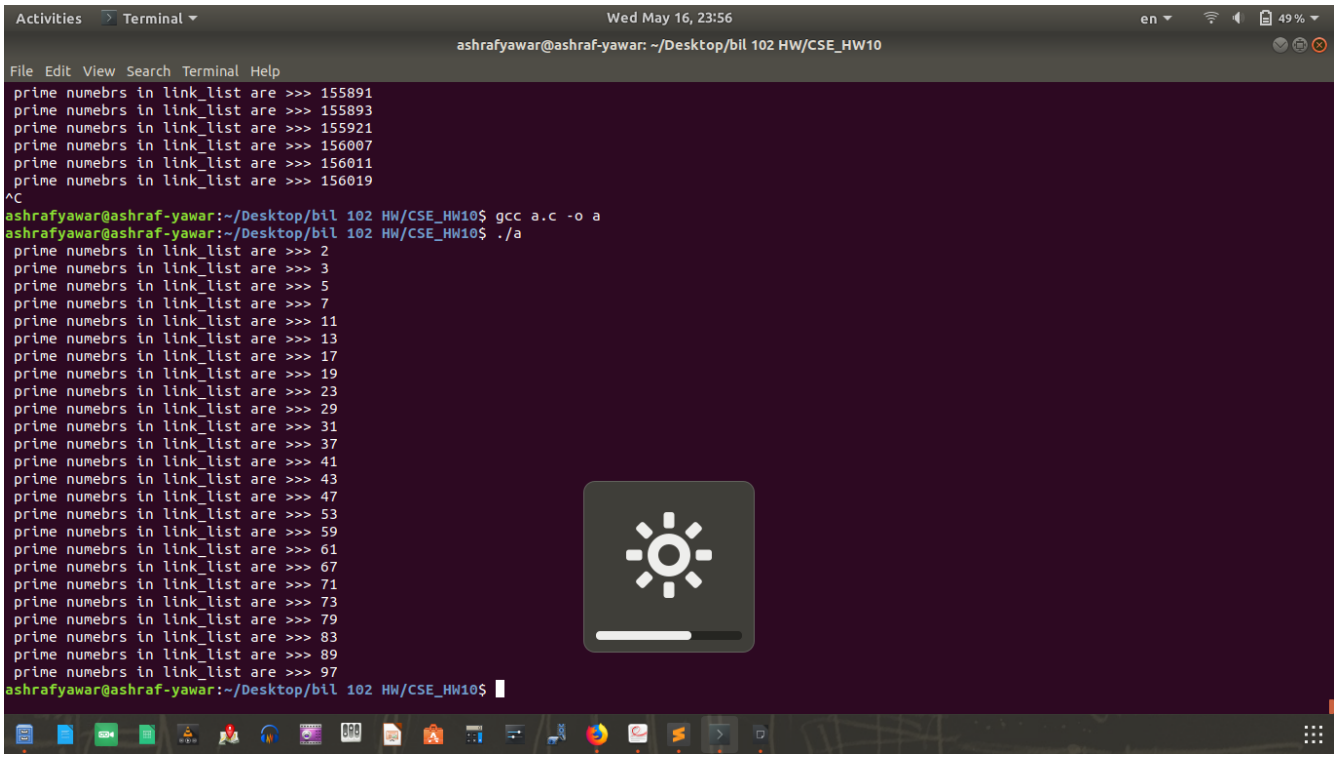


as you can see the above one reads the file and prints the result on the screen (the function read_file).

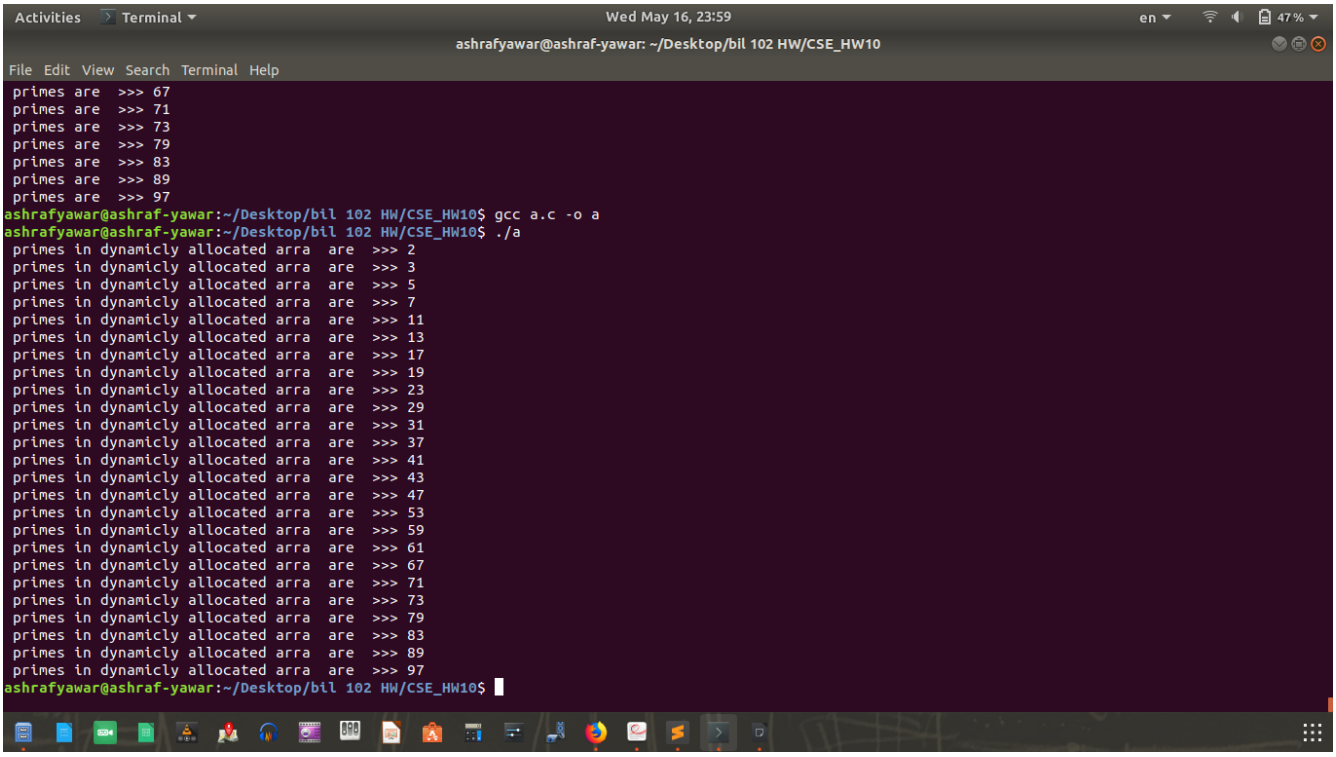
In the next step we were asked to write a function which check and prints the prime numbres by using linked list and dynamicly allocates array .i have written two seperate functions one for linked list wich read a structed array which contains the file contents in it ,and finds the prime of them and stores them in an linked list .and the second functions also does almost the same thing but by using dynamic allocated arrays principle.

>>> some of them are >>>

for example for the size 100 the prime nums inside the linked linked lists are >>>



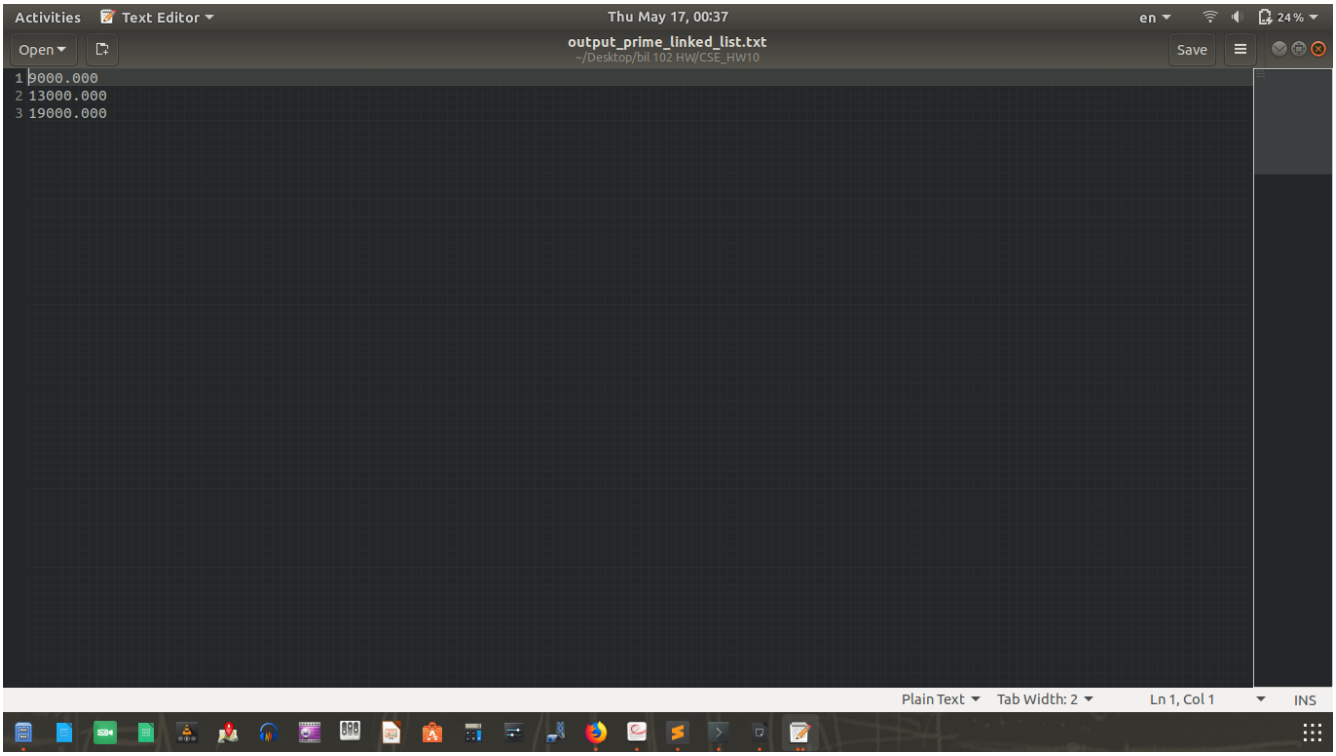
and for dynamicly allocated arary it would be >>>



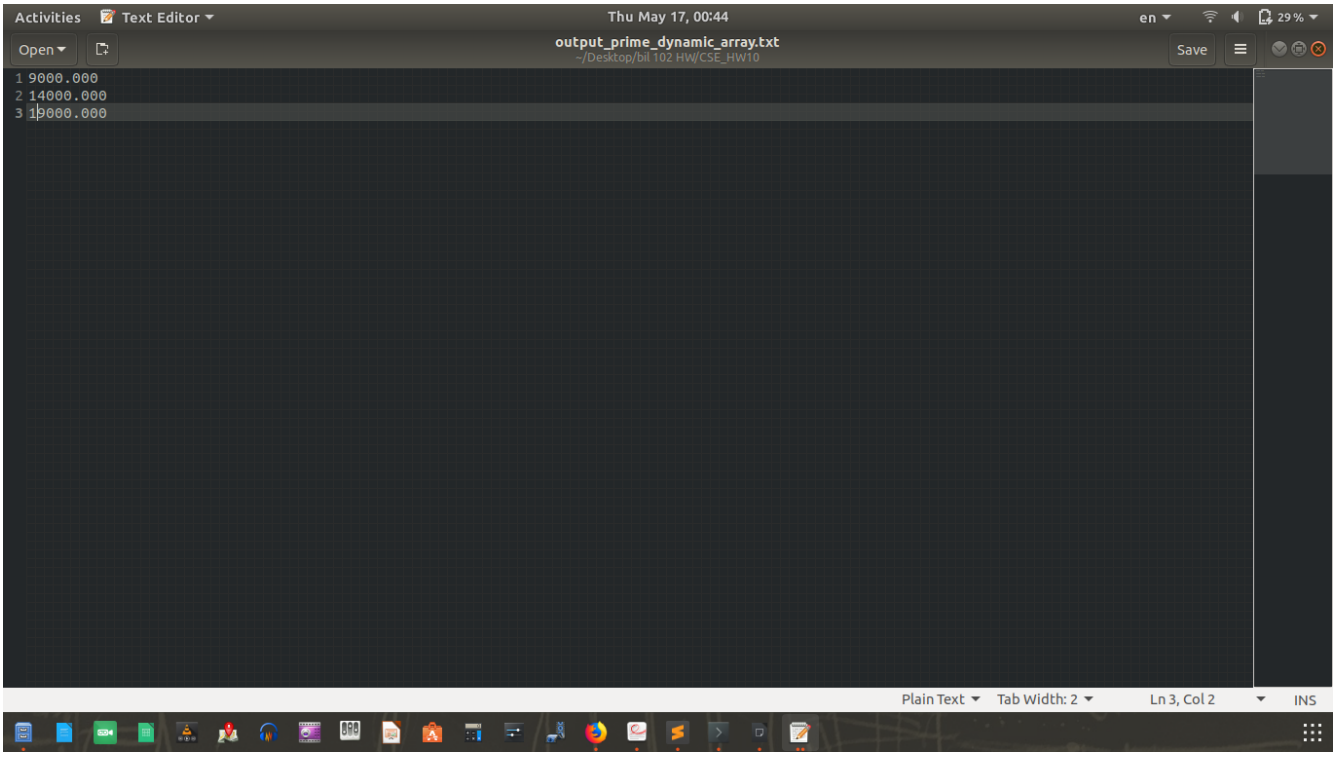
you can put number form 1 till 1000000>>>
in the their part we are asked to find the time taken by some proccess in the souce code which are>>>
a) time taken to copy the data from the linked list to and file between 1 – 500000, 1 – 750000 and 1-1000000 time takens >>>

for the linked list these were >>>

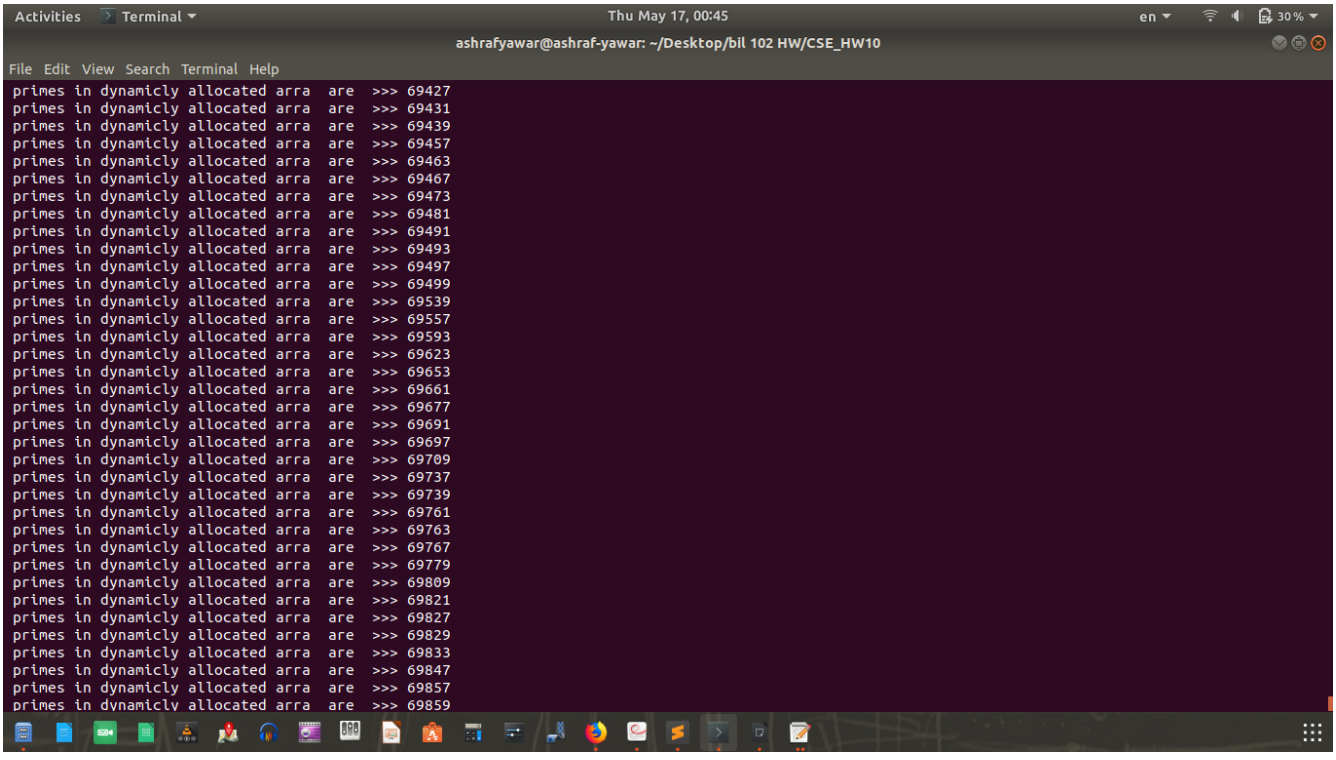
1 – 50000, 1 – 60000 and 1-70000 time taken were in the file respectivly >>>



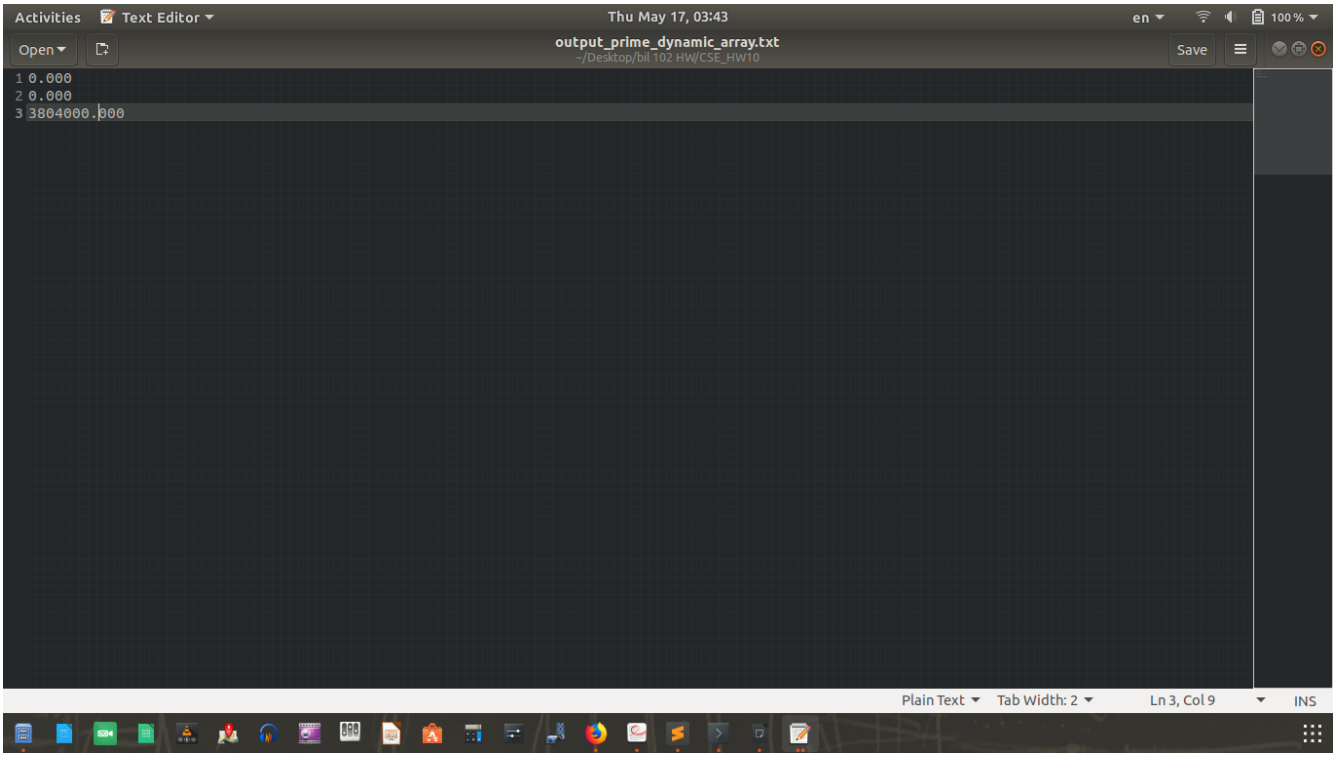
as we can see I chosed here the smal number so that I could get the result quicly but you could use the all desired numbers betwee 1 and 10000000 as well .the time taken between the above interval of numbers are written in the file in three lines respectivly>>> and also do not forget that the time is measure in terms of mili second which makes *1000 times of one seconds .the screen shot above is belong to (output_prime_linked_list.txt) and the down one will be for the (output_prime_dynamic_array.txt) >>> which doas the same thing and has printed the time taken values in a file for the endicated interval of numbers >>>



as you can see it also printed in three lines respectively.
And here some more screen shots>>>



and this down one shows the time taken to write a file the digists between 1 and 10000000 in the dynamic array the third line >>>



and the down one shows the time taken in the linked list to copy to file the data between 1 and 10000000 in linked list the third line consider the difference of the names of the files to make sure about correctness >>>