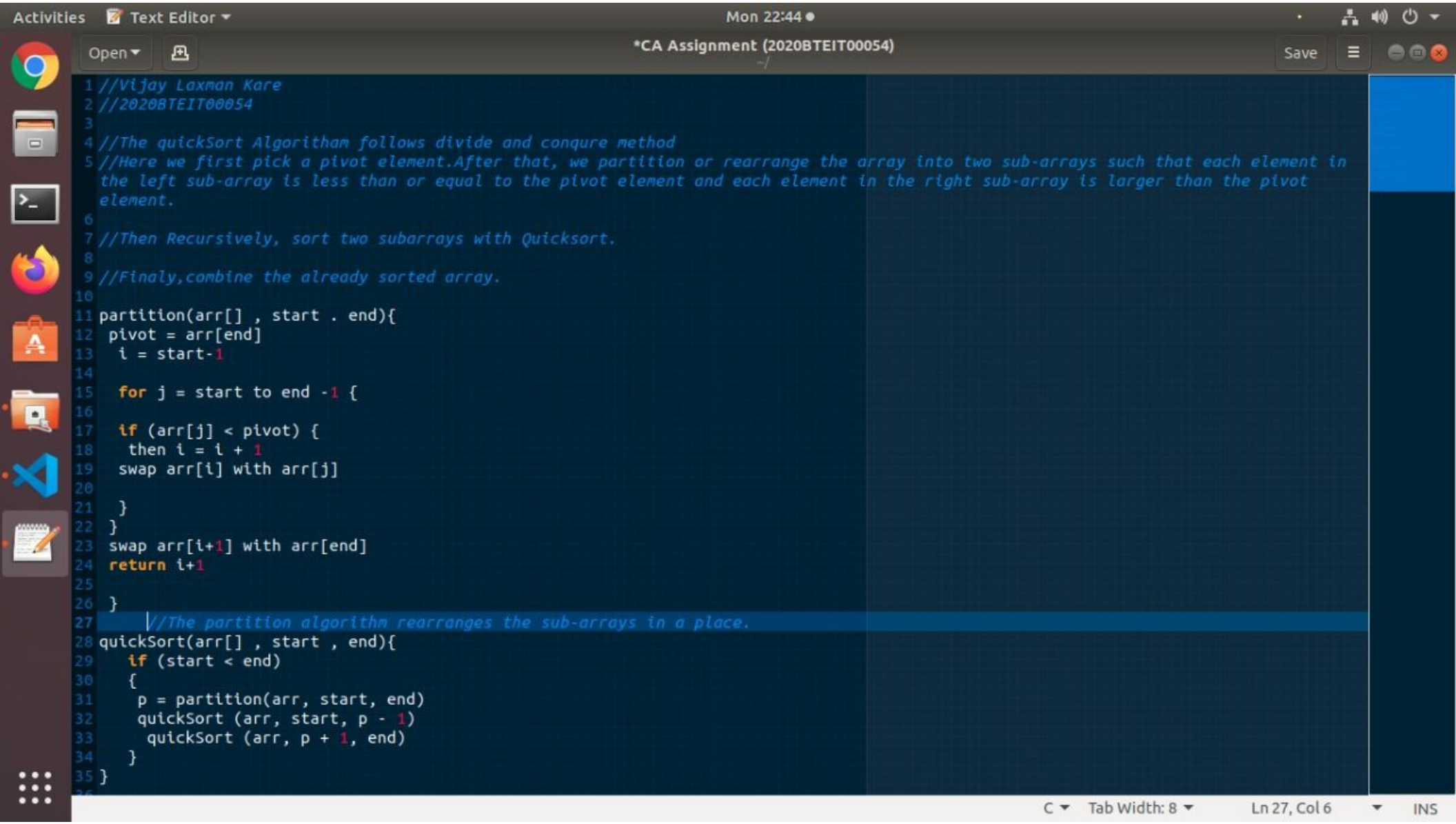
Activities
Text Editor
Mon 22:44
Open
*CA Assignment (2020BTEIT00054)
Save
//Vijay Laxman Kare
//2020BTEIT00054
//The quickSort Algoritham follows divide and conqure method
//Here we first pick a pivot element.After that, we partition or rearrange the array into two sub-arrays such that each element in the left sub-array is less than or equal to the pivot element and each element in the right sub-array is larger than the pivot element.
//Then Recursively, sort two subarrays with Quicksort.
//Finaly,combine the already sorted array.
partition(arr[] , start . end){
pivot = arr[end]
i = start-1
for j = start to end -1 {
if (arr[j] < pivot) {
then i = i + 1
swap arr[i] with arr[j]
}
}
swap arr[i+1] with arr[end]
return i+1
}
//The partition algorithm rearranges the sub-arrays in a place.
quickSort(arr[] , start , end){
if (start < end)
{
p = partition(arr, start, end)
quickSort (arr, start, p - 1)
quickSort (arr, p + 1, end)
}
}
C
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