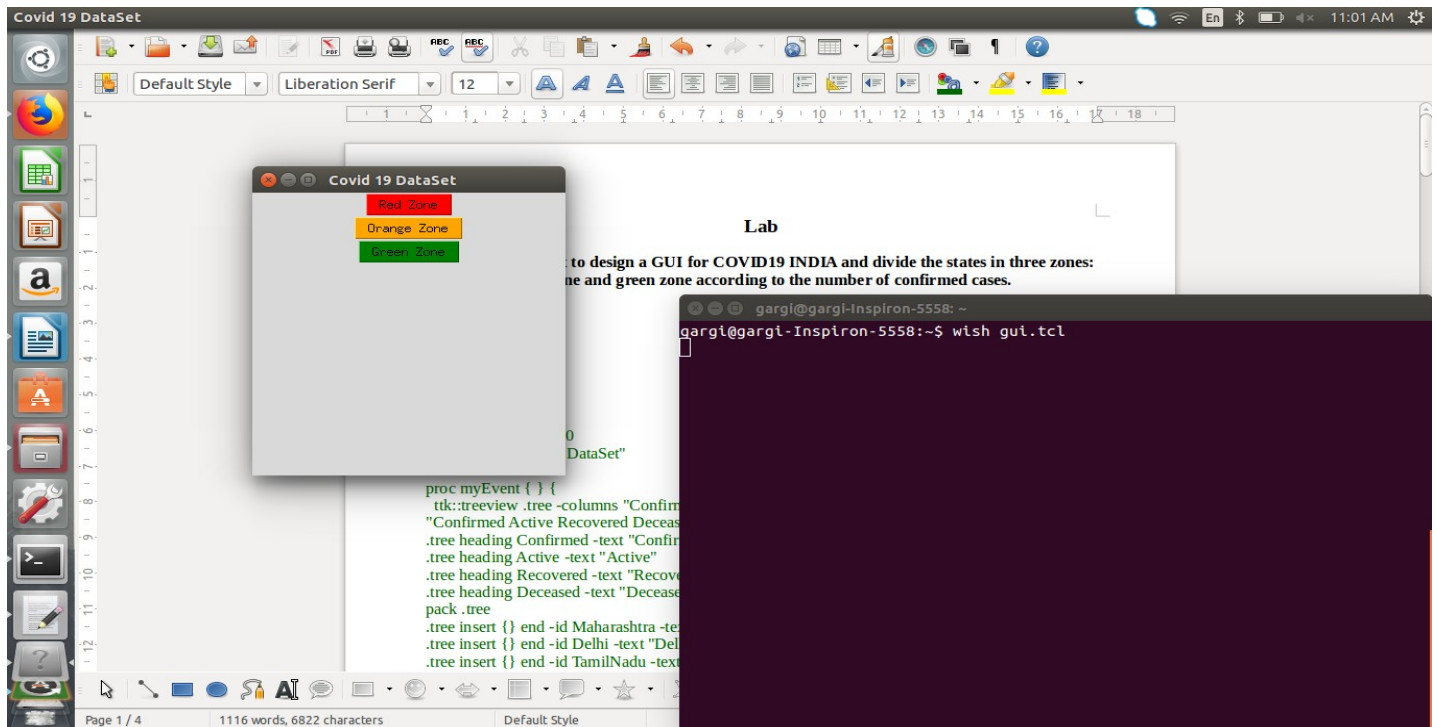# Lab
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Write a tcl-tk script to design a GUI for COVID19 INDIA and divide the states in three zones: red zone, orange zone and green zone according to the number of confirmed cases.

I have implemented tree hiearchy . Whenever a button is clicked , an event gets triggered.
My event is the list in tree heiarchy .
List consists of states.
When the state is clicked, its data gets displayed.

Code :

```
#!/usr/bin/wish
wm minsize . 300 300
wm title . "Covid 19 DataSet"

proc myEvent { } {
  ttk::treeview .tree -columns "Confirmed Active Recovered Deceased" -displaycolumns
"Confirmed Active Recovered Deceased"
.tree heading Confirmed -text "Confirmed"
.tree heading Active -text "Active"
.tree heading Recovered -text "Recovered"
.tree heading Deceased -text "Deceased"
pack .tree
.tree insert {} end -id Maharashtra -text "Maharashtra"
.tree insert {} end -id Delhi -text "Delhi"
.tree insert {} end -id TamilNadu -text "Tamil Nadu"
.tree insert {} end -id Rajasthan -text "Rajasthan"
.tree insert Maharashtra end -text Maharashtra -values [list "2455" "2066" "229" "160"]
.tree insert Delhi end -text Delhi -values [list "1510" "1451" "31" "28"]
.tree insert TamilNadu end -text "Tamil Nadu" -values [list "1204" "1111" "81" "12"]
.tree insert Rajasthan end -text "Rajasthan" -values [list "969" "825" "133" "11"]
.tree insert "" end -id Direct -text "Red Zone"
.tree move Maharashtra Direct end
.tree move Delhi Direct end
.tree move TamilNadu Direct end
.tree move Rajasthan Direct end
}
pack [button .redz -text "Red Zone" -background red -command myEvent]
bind . ".redz invoke"

proc myEvent1 { } {
```

```
  ttk::treeview .tree1 -columns "Confirmed Active Recovered Deceased" -displaycolumns
"Confirmed Active Recovered Deceased"
.tree1 heading Confirmed -text "Confirmed"
.tree1 heading Active -text "Active"
.tree1 heading Recovered -text "Recovered"
.tree1 heading Deceased -text "Deceased"
pack .tree1
.tree1 insert {} end -id UP -text "Uttar Pradesh"
.tree1 insert {} end -id guj -text "Gujarat"
.tree1 insert {} end -id Mp -text "Madhya Pradesh"
.tree1 insert {} end -id tel -text "Telangana"
.tree1 insert {} end -id ap -text "Andhra Pradesh"
.tree1 insert {} end -id kl -text "Kerela"
.tree1 insert {} end -id jk -text "Jammu and Kashmir"
.tree1 insert {} end -id ka -text "Karnataka"
.tree1 insert {} end -id hy -text "Haryana"
.tree1 insert {} end -id wb -text "West Bengal"
.tree1 insert {} end -id pun -text "Punjab"
.tree1 insert UP end -text "Uttar Pradesh" -values [list "660" "602" "50" "8"]
.tree1 insert guj end -text Gujarat -values [list "650" "563" "59" "28"]
.tree1 insert Mp end -text "Madhya Pradesh" -values [list "614" "513" "51" "50"]
.tree1 insert tel end -text "Telangana" -values [list "592" "472" "103" "17"]
.tree1 insert ap end -text "Andhra Pradesh" -values [list "473" "448" "16" "9"]
.tree1 insert kl end -text Kerela -values [list "386" "173" "211" "2"]
.tree1 insert jk end -text "Jammu and Kashmir" -values [list "278" "244" "30" "4"]
.tree1 insert ka end -text "Karnataka" -values [list "260" "179" "71" "10"]
.tree1 insert hy end -text "Haryana" -values [list "198" "140" "55" "3"]
.tree1 insert wb end -text "West Bengal" -values [list "190" "147" "36" "7"]
.tree1 insert pun end -text "Punjab" -values [list "184" "144" "27" "13"]
.tree1 insert "" end -id Direct -text "Orange Zone"
.tree1 move UP Direct end
.tree1 move guj Direct end
.tree1 move Mp Direct end
.tree1 move tel Direct end
.tree1 move ap Direct end
.tree1 move kl Direct end
.tree1 move jk Direct end
.tree1 move ka Direct end
.tree1 move hy Direct end
.tree1 move wb Direct end
.tree1 move pun Direct end
}


pack [button .orangez -text "Orange Zone" -background orange -command myEvent1]
bind .  ".orangez invoke"


proc myEvent2 { } {
  ttk::treeview .tree2 -columns "Confirmed Active Recovered Deceased" -displaycolumns
"Confirmed Active Recovered Deceased"
.tree2 heading Confirmed -text "Confirmed"
```

```
.tree2 heading Active -text "Active"
.tree2 heading Recovered -text "Recovered"
.tree2 heading Deceased -text "Deceased"
pack .tree2
.tree2 insert {} end -id bh -text "Bihar"
.tree2 insert {} end -id odh -text "Odisha"
.tree2 insert {} end -id uk -text "Uttrakhand"
.tree2 insert {} end -id ch -text "Chattisgarh"
.tree2 insert {} end -id as -text "Assam"
.tree2 insert {} end -id hp -text "Himachal Pradesh"
.tree2 insert {} end -id jk -text "Jharkhand"
.tree2 insert {} end -id cha -text "Chandigarh"
.tree2 insert {} end -id lk -text "Ladakh"
.tree2 insert {} end -id aan -text "Andaman and Nicobar Islands"
.tree2 insert {} end -id goa  -text "Goa"
.tree2 insert {} end -id pu -text "Puducherry"
.tree2 insert {} end -id mn -text "Manipur"
.tree2 insert {} end -id tri -text "Tripura"
.tree2 insert {} end -id arp  -text "Arunachal Pradesh"
.tree2 insert {} end -id dnh -text "Dadra and Nagar Haveli"
.tree2 insert {} end -id megh -text "Meghalya"
.tree2 insert {} end -id mizo  -text "Mizoram"
.tree2 insert {} end -id naga -text "Nagaland"
.tree2 insert bh end -text Bihar -values [list "66" "36" "29" "1"]
.tree2 insert odh end -text Odisha -values [list "60" "41" "18" "1"]
.tree2 insert uk end -text "Uttrakhand" -values [list "37" "28" "9" "-"]
.tree2 insert ch end -text "Chhattisgarh" -values [list "33" "23" "10" "-"]
.tree2 insert as end -text Assam -values [list "32" "31" "-" "1"]
.tree2 insert hp end -text "Himachal Pradesh" -values [list "32" "18" "12" "2"]
.tree2 insert jk end -text "Jharkhand" -values [list "27" "25" "-" "2"]
.tree2 insert cha end -text "Chandigarh" -values [list "21" "14" "7" "-"]
.tree2 insert lk end -text Ladakh -values [list "17" "5" "12" "-"]
.tree2 insert aan end -text "Andaman and Nicobar Islands" -values [list "11" "1" "10" "-"]
.tree2 insert goa end -text "goa" -values [list "27" "25" "-" "2"]
.tree2 insert pu end -text "Puducherry" -values [list "7" "6" "1" "-"]
.tree2 insert mn end -text Manipur -values [list "2" "1" "1" "-"]
.tree2 insert tri end -text "Tripura" -values [list "2" "2" "-" "-"]
.tree2 insert arp end -text "Arunachal Pradesh" -values [list "1" "1" "-" "-"]
.tree2 insert dnh end -text "Dadra and Nagar Haveli" -values [list "1" "1" "-" "-"]
.tree2 insert megh end -text "Meghalaya" -values [list "1" "1" "-" "-"]
.tree2 insert mizo end -text "Mizoram" -values [list "1" "1" "-" "-"]
.tree2 insert naga end -text "Nagaland" -values [list "1" "1" "-" "-"]

.tree2 insert "" end -id Direct -text "Green Zone"
.tree2 move bh Direct end
.tree2 move odh Direct end
.tree2 move uk Direct end
.tree2 move ch Direct end
.tree2 move as Direct end
.tree2 move hp Direct end
.tree2 move jk Direct end
.tree2 move cha Direct end
```

```
.tree2 move lk Direct end
.tree2 move aan Direct end
.tree2 move goa Direct end
.tree2 move pu Direct end
.tree2 move mn Direct end
.tree2 move tri Direct end
.tree2 move arp Direct end
.tree2 move dnh Direct end
.tree2 move megh Direct end
.tree2 move mizo Direct end
.tree2 move naga Direct end
}
pack [button .greenz -text "Green Zone" -background green -command myEvent2]
bind .  ".greenz  invoke"
```