

### **Pandemic, Epidemic diseases assignment.**

Make a Circular linked list, A single node contains 3 main members i.e. disease name (character), first found year of disease(int), disease severe or not ( enum{ severe,notsevere} bool) you can add more members but minimum this should be present.

```
struct PandemicAndEpidemicDiseases
```

```
{
```

```
    char *diseases;
```

```
    int discoveredInYear;
```

```
    bool severe;
```

```
}
```

1. This is a menu-driven program that creates a circular linked list with above struct as a node.
2. Download the attached file and keep it your current directory where you are solving this code assignment.
3. In gohome.txt replace "Shardul Karkhile" with your Name.
4. Now, in code at very beginning before writing any linked list part read the "gohome.txt" and print on console the read lines
5. Then start with your code.
6. For char\* diseases don't give any hardcoded size, take name at runtime (hint:- malloc())
7. three compulsory methods to be implemented createDiseaseList() , addDiseasesAtBeginning(), deleteDiseases(int discoveredInYear), exitLife();
8. In createDiseaseList() create initial 3 Diseases. (MANDATORY:- One of the disease should be corona(COVID-19) )
9. Display the list

10. In addDiseasesAtBeginning() add 2 Diseases.
11. Display the list
12. deleteDiseases(discoveredIn):- delete diseases based on discovered year.(keep corona only delete rest )
13. Display the list
14. exitLife() call to exit() ( clear all allocated memory and then exit)
15. In every functions i.e createDiseaseList() addDiseasesAtBeginning() deleteDiseases() exitLife() print the contents in file, whatever you do.

TERMINAL CONSOLE (i.e MENU SHOULD LOOK LIKE THIS)

My Name is Shardul karkhile

1. Create Diseases List.
2. Add Diseases At Beginning.
3. Display Diseases
4. Delete Diseases
5. Exit

Enter your choice:--

-----  
In 1. take 3 diseases name with initial creation (take input from the user)

In 2. add 2 diseases by taking input from the user

In 4. delete diseases one by one by discovered year and keep corona only

### 3. Display Diseases:-

Disease Name:- Chikungunya

Discovered Year - 1952

Severity - 1

Disease Name:- Meningitis

Discovered Year - 1805

Severity - 0

### 5. Exit

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