# How to build your own Covid-19 tracker using C Programming Language?

Covid-19 tracker is the way to track that whether the person or user is infected from covid-19 virus or not based on certain symptoms. Some of the common symptoms of covid-19 are:

Fever

Head Ache

Body Pain

Diarrhoea

Cough and Cold

Breathing Issues

Loss of taste and Smell

And suffering from any disease prior like, diabetes, Hypertension, Blood Pressure, etc.

Based on these symptoms the covid-19 tracker will give the result and advice to the user or patient. Let’s see step to step wise implementation of the model using C language and then followed by complete code.

## Step 1: Importing the Header Files

#include <stdio.h>

#include <string.h>

#include <stdlib.h>

// string.h for using various string functions such as strcmp(), strcpy(), etc.

// stdlib.h for memory management in the program.

## Step 2: Creating Global variables

Global variables are the variables which can be accessed anywhere throughout the program.

char n[10], feverDetails[10], coughDetails[10], BodyDetails[10], diaDetails[10], breathingDetails[10], tasteDetails[10], disease[10] ;

## Step 3: Creating the function to detect the covid.

The aim of this function to detect the covid based on certain parameters that has been entered by the user.

int detectCovid(){

if (strcmp(disease,"yes") == 0){

printf("Please do stay at home with more precautions\n");

}

else if (strcmp(feverDetails,"yes") == 0 || strcmp(coughDetails,"yes") == 0 || strcmp(BodyDetails,"yes") == 0 || strcmp(diaDetails,"yes") == 0 || strcmp(breathingDetails,"yes") == 0 || strcmp(tasteDetails,"yes") == 0){

printf("You are not safe, get yourself tested and take proper precations\n");

}

else {

printf("You are safe\n");

}

}

## Step 4: Creating int main() function, the main part of the code.

int main()

{

char a[20];

printf("Welcome to covid-19 tracker");

printf("\nDo you have any symptoms like:\n1) Cough\n2) Cold\n3) Body Ache\n4) fever\n5) Diarhea\n6) Breathing Issues\n7) Sore throat]\n8) Loss of taste and smell\n9) Any diease like Diabetes, Blood Pressure, Hypertension, etc");

printf("\nPress yes if you have any of these: ");

scanf("%s",n);

if(strcmp(n , "yes") == 0){

printf("Do you have fever? Enter yes or no\n");

scanf("%s ", feverDetails);

strcpy(a, "fever");

}

if(strcmp(a , "fever") == 0){

printf("Do you have cough and cold? Enter yes or no\n");

scanf("%s ”, coughDetails);

strcpy(a, "cough");

}

if(strcmp(a , "cough") == 0){

printf("Do you have Body Ache? Enter yes or no\n");

scanf("%s ", BodyDetails);

strcpy(a, "body");

}

if(strcmp(a , "body") == 0){

printf("Are you suffering from Diarhea? Enter yes or no\n");

scanf("%s ", diaDetails);

strcpy(a, "Diarhea");

}

if(strcmp(a , "Diarhea") == 0){

printf("Do you have Breathing Issues? Enter yes or no\n");

scanf("%s ", breathingDetails);

strcpy(a, "Breathing");

}

if(strcmp(a , "Breathing") == 0){

printf("Are you getting taste and smell? Enter yes or no\n");

scanf("%s ", tasteDetails);

strcpy(a, "taste");

}

if(strcmp(a, "taste") == 0){

printf("Are you suffering from any disease already? Enter yes or no\n");

scanf("%s ", disease);

strcpy(a, "disease");

}

if(strcmp(a , "disease") == 0){

detectCovid();

}

else{

printf("Thanks for using !!\n");

}

return 0;

}

## Complete Code:

#include <stdio.h>

#include <string.h>

#include <stdlib.h>

char n[10], feverDetails[10], coughDetails[10], BodyDetails[10], diaDetails[10], breathingDetails[10], tasteDetails[10], disease[10] ;

int detectCovid(){

if(strcmp(disease,"yes") == 0){

printf("Please do stay at home with more precautions\n");

}

else if(strcmp(feverDetails,"yes") == 0 || strcmp(coughDetails,"yes") == 0 || strcmp(BodyDetails,"yes") == 0 || strcmp(diaDetails,"yes") == 0 || strcmp(breathingDetails,"yes") == 0 || strcmp(tasteDetails,"yes") == 0){

printf("You are not safe, get yourself tested and take proper precautions\n");

}

else{

printf("You are safe\n");

}

}

int main()

{

char a[20];

printf("Welcome to covid-19 tracker");

printf("\nDo you have any symptoms like?\n1) Cough\n2) Cold\n3) Body Ache\n4) fever\n5) Diarrhoea\n6) Breathing Issues\n7) Sore throat]\n8) Loss of taste and smell\n9) Any disease like Diabetes, Blood Pressure, Hypertension, etc");

printf("\nPress yes if you have any of these: ");

scanf("%s",n);

if(strcmp(n,"yes") == 0){

printf("Do you have fever? Enter yes or no\n");

scanf("%s",feverDetails);

strcpy(a, "fever");

}

if(strcmp(a,"fever") == 0){

printf("Do you have cough and cold? Enter yes or no\n");

scanf("%s",coughDetails);

strcpy(a, "cough");

}

if(strcmp(a,"cough") == 0){

printf("Do you have Body Ache? Enter yes or no\n");

scanf("%s",BodyDetails);

strcpy(a, "body");

}

if(strcmp(a,"body") == 0){

printf("Are you suffering from diarrhoea? Enter yes or no\n");

scanf("%s",diaDetails);

strcpy(a, "Diarhea");

}

if(strcmp(a,"Diarhea") == 0){

printf("Do you have Breathing Issues? Enter yes or no\n");

scanf("%s",breathingDetails);

strcpy(a, "Breathing");

}

if(strcmp(a,"Breathing") == 0){

printf("Are you getting taste and smell? Enter yes or no\n");

scanf("%s",tasteDetails);

strcpy(a, "taste");

}

if(strcmp(a,"taste") == 0){

printf("Are you suffering from any disease already? Enter yes or no\n");

scanf("%s",disease);

strcpy(a, "disease");

}

if(strcmp(a,"disease") == 0){

detectCovid();

}

else{

printf("Thanks for using !!\n");

}

return 0;

}

## Output:

Welcome to covid-19 tracker

Do you have any symptoms like?

1) Cough

2) Cold

3) Body Ache

4) fever

5) Diarhea

6) Breathing Issues

7) Sore throat

8) Loss of taste and smell

9) Any disease like Diabetes, Blood Pressure, Hypertension,

Press yes if you have any of these: yes

Do you have fever? Enter yes or no

no

Do you have cough and cold? Enter yes or no

no

Do you have Body Ache? Enter yes or no

yes

Are you suffering from diarrhoea? Enter yes or no

no

Do you have Breathing Issues? Enter yes or no

no

Are you getting taste and smell? Enter yes or no

Yes

Are you suffering from any disease already? Enter yes or no

no

You are not safe, get yourself tested and take proper precautions