ENG 224

1.

a) Analyse: we have to analyze the covid 19 virus pandemic, the cause of the virus and how to tackle it. And also how to detect symptoms.

b) specification: dividing the system into hardware and software

c) design: it determines the nature of the input and output layout with the process steps required.

d) implementation: using documents to write the codes created for the design acting as the input.

e) testing and debugging : when the developed code is tested to detect the problems, and try to fix them.

f) release and update: released for usage and update based on new features and bug fixes.

2. The software features:-

The application is developed on an algorithm system. And it will involve the use of

* Graphic user interface(GUI)
* Command buttons
* Switch buttons
* Text views
* Timer
* Access control

Hardware features:-

The application is been developed on 50 Tb ram, fast processor,etc

It will also require:

* Air pump
* Pipes
* Temperature determinant
* Oxygen tank
* Cooler.

3.

Let n= negative

P= positive

Step 1: start

Step 2: detect temperature

Step 3: read temperature

Step 4: if temperature>40 degrees

Print “positive”

Else

If temperature<37

Print “negative”

Step 5: stop

Flowchart.

START

CHECK TEMPERATUREURE

IF TEMP>40

IF TEMP<37 DEGREES

PRINT POSITIVE

PRINT NEGATIVE

STOP

4. TOP DOWN DESIGN

ALARM

VIRUS DETECTOR

SCAN

DETECT

READ