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Computer Engineering

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#### a) Conceptualization

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

↳ then 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) 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

\* Access Control

## Hardware Features

The application is been developed on 50Tb ram, fast processor, etc  
It will also require:



- \* Air pump
- \* Pipes
- \* Temperature determinant
- \* Oxygen tank
- \* ~~Water~~ Cooler

3)

let  $n = \text{negative}$   
 $p = \text{positive}$

Step 1: Start

Step 2: Detect temperature

Step 3: Read temperature

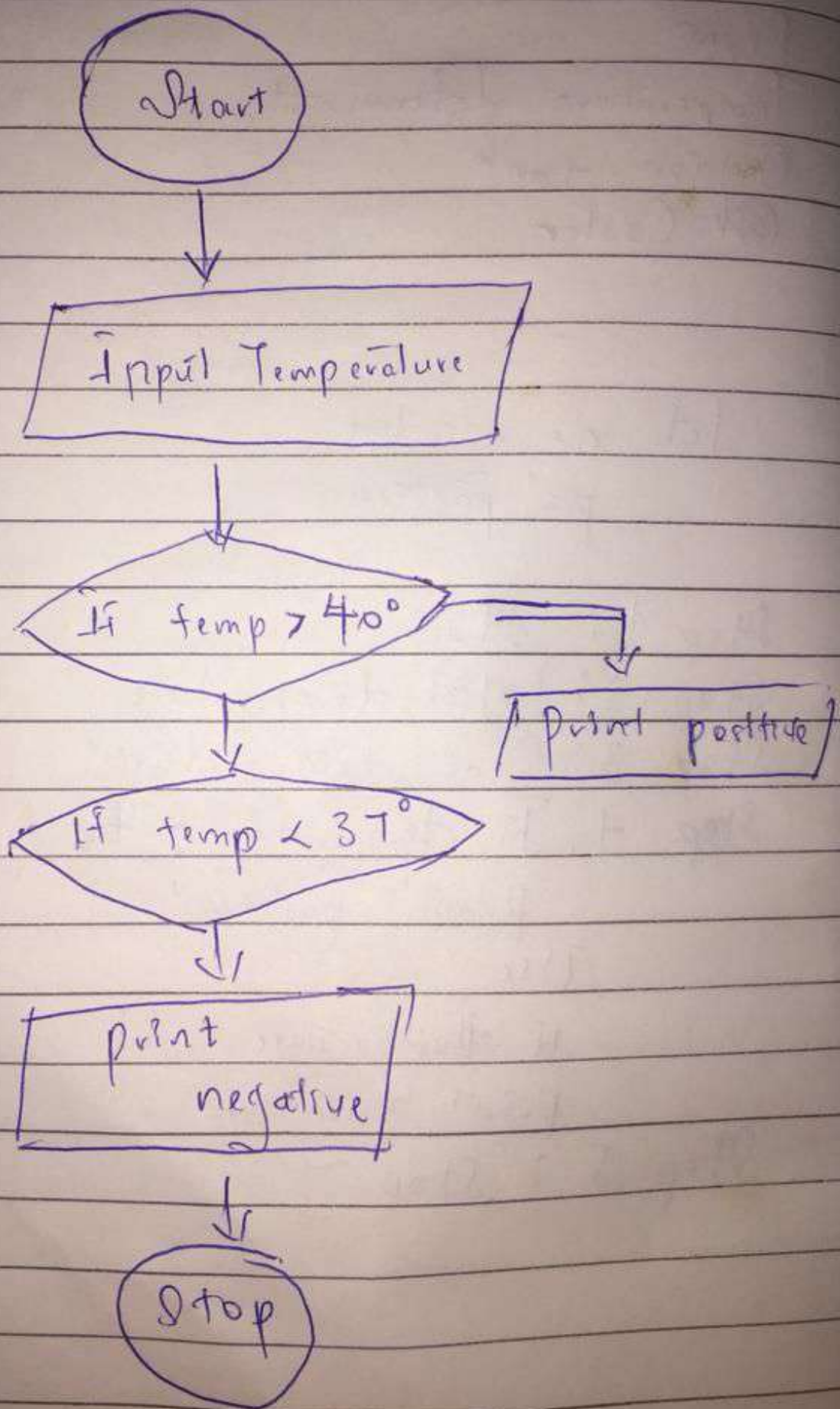
Step 4: If temperature  $> 40$  degrees  
 print "positive"  
 Else

If temperature  $< 37$

print "negative"

Step 5: Stop

# Flowchart





#### 4) Top down design

