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18/ENG05/013

MECHATRONICS ENGINEERING

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### a) Conceptualization

We have to analyze the covid19 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

## 1) Testing And Debugging

↳ then the developed code is tested to detect the problems, and try to fix them

## 1) 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

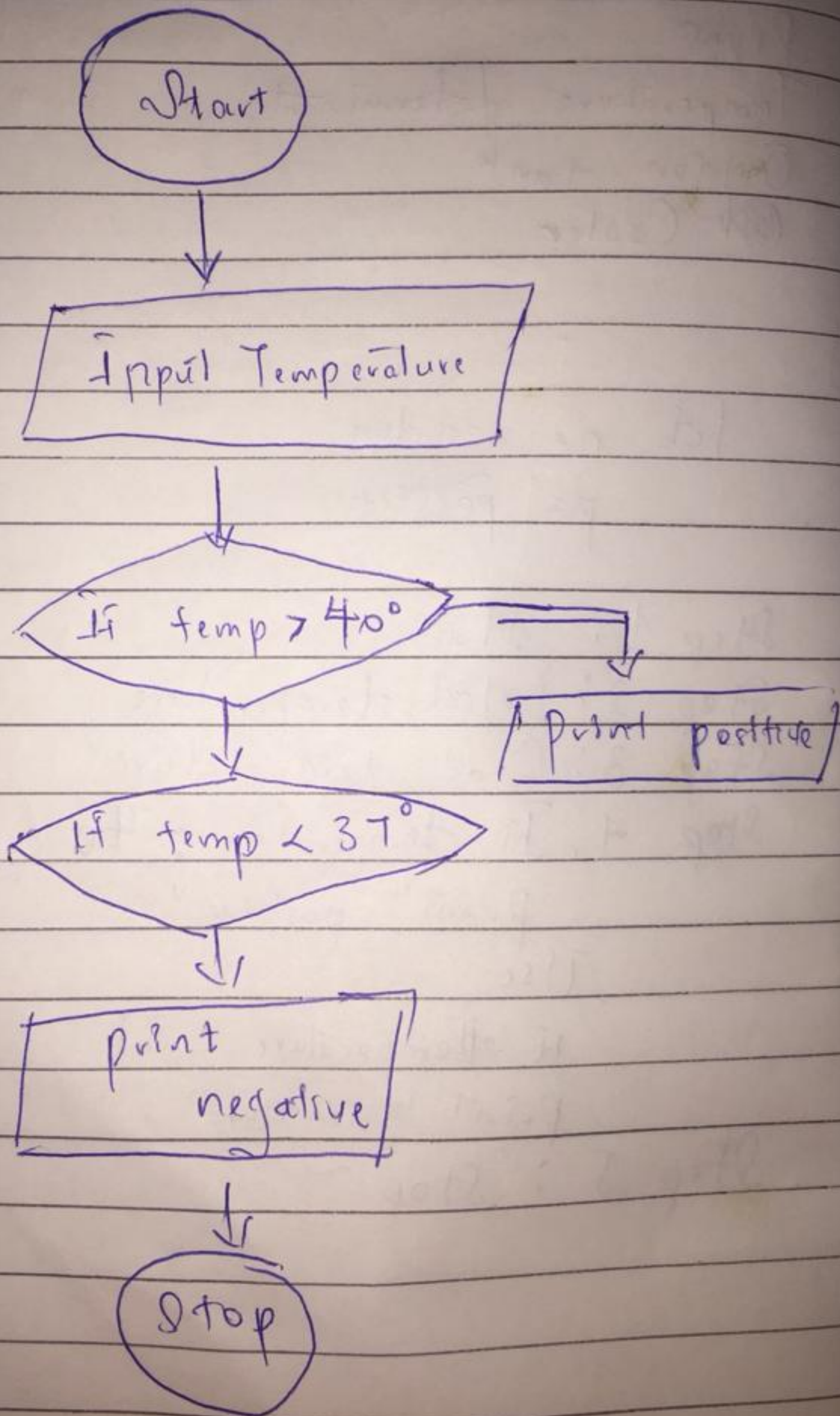
    print "positive"  
else

    if temperature  $< 37$

        print "negative"

Step 5: Stop

# Flowchart



#### 4) Top down design

