A

B

**input** personal\_info

A

**Yes**

**Is** folder\_num\_exist ?

**Yes**

**No**

**No**

Process Waiting

**Is** line\_num= announce\_num ?

**Start**

line\_num

**Input** bmi\_data, bp\_data & medical questions

D

C

B

A

**get** require\_samples

**display** requirement\_complete

**Yes**

**No**

**display** requirement\_samples;

1. stool
2. blood
3. urine

**Is** stool\_sample done?

B

**display** hospital\_result

**Yes**

**No**

**End**

Taking treatment

**Is** there is a ailment ?

D

**Yes**

**Yes**

C

C

**No**

C

**Is** urine\_sample done?

B

**No**

**Is** blood\_sample done?

A

1. **Flow Chart**

Flowchart is a diagram of the sequence of movements or actions of people or things involved in a complex system or activity. The above shows the flow of events when it comes to getting check-up.

1. **Algorithm**

This is the step by step procedure when going to clinic or hospitals to undergo some check-up.

1. The patience must have face-mask to avoid cross infection, and the stuffs will give line number to the patients, the next number line will be posted via hospital monitors.
2. The stuffs will ask the patients of what is their file number.
3. If the patients doesn’t have file number, they will be given a form that ask their personal information's.
4. The basic check-up will now begin after the stuff get your information, proceed to doctor for medical questions.
5. The doctor will give a medical receipt which contains the samples need for laboratory analysis.
6. You will be guided by the stuff to the destination laboratory rooms. The patient must give their samples to the lab to begin the analysis and wait for the results.
7. The patient will go to the doctor to interpret the results, given advice and if necessary, the patient will get supplements or treatment.
8. **Pseudocode**

This section will show the step-by-step procedure but in the way of expressing informal code.

1. **Begin.**
2. **Numeric** line\_num
3. **Loading**
4. **If** (line\_num == announce\_num) **then** continue, **else goto** step 3.
5. **If** folder\_num exist **then** go to the doctor, **else** create personal folder and fill-up personal\_info
6. **Input** bmi and bp
7. **Display** requirement samples.
8. **Process.** Go to the labs
9. **If** (stool==’True’&&urine==’True’&&blood==’True’) **then** go to the doctor, **else goto** step 8.
10. **Display** results
11. **If** (results==’Healthy’) **then** happy **else** take treatments/supplements/maintenance.