Requirements:

1) To display digital clock, in mm:ss format in the 7-segment MUX LED.

2) The Digital clock should include 2 modes. Set and Run

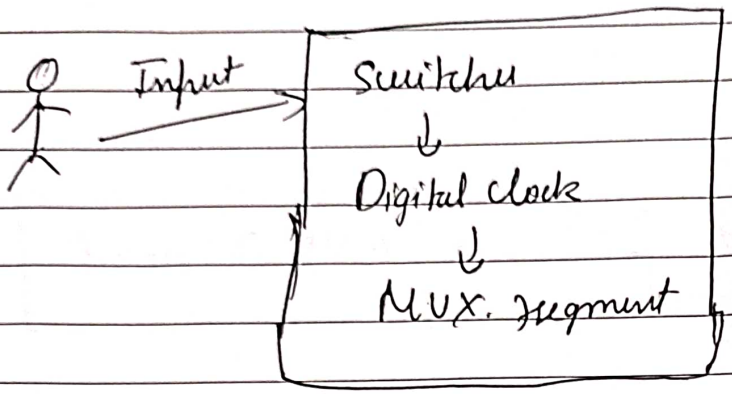
3) In set mode. the time that to start from the time set by the user.

4) In run mode. the clock that to start running from the set timings.

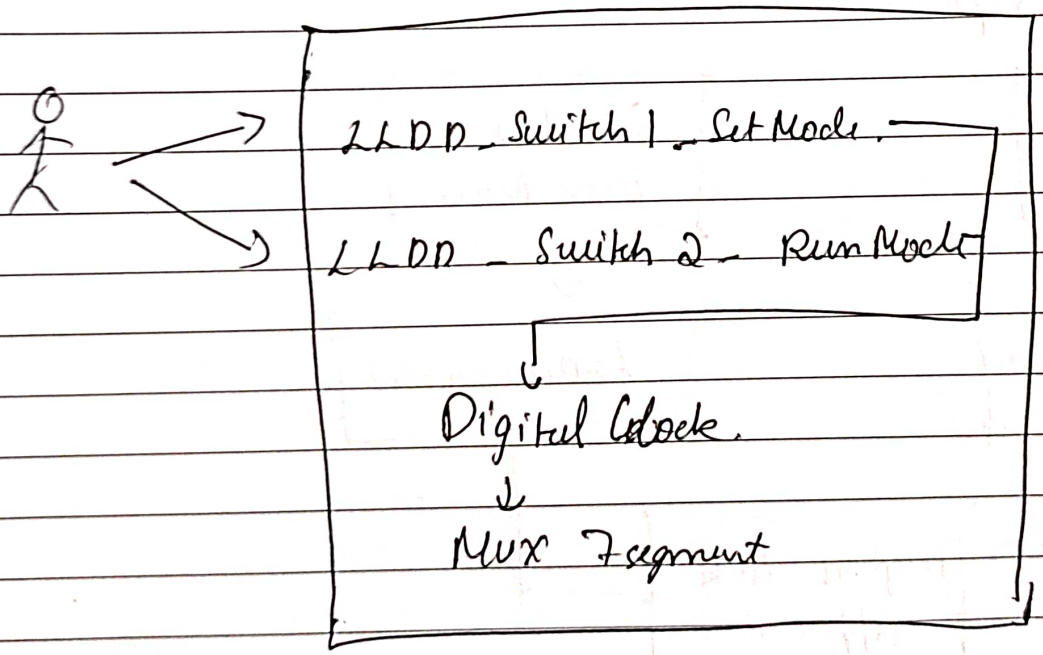
DIGITAL CLOCK.

Use Case diagram

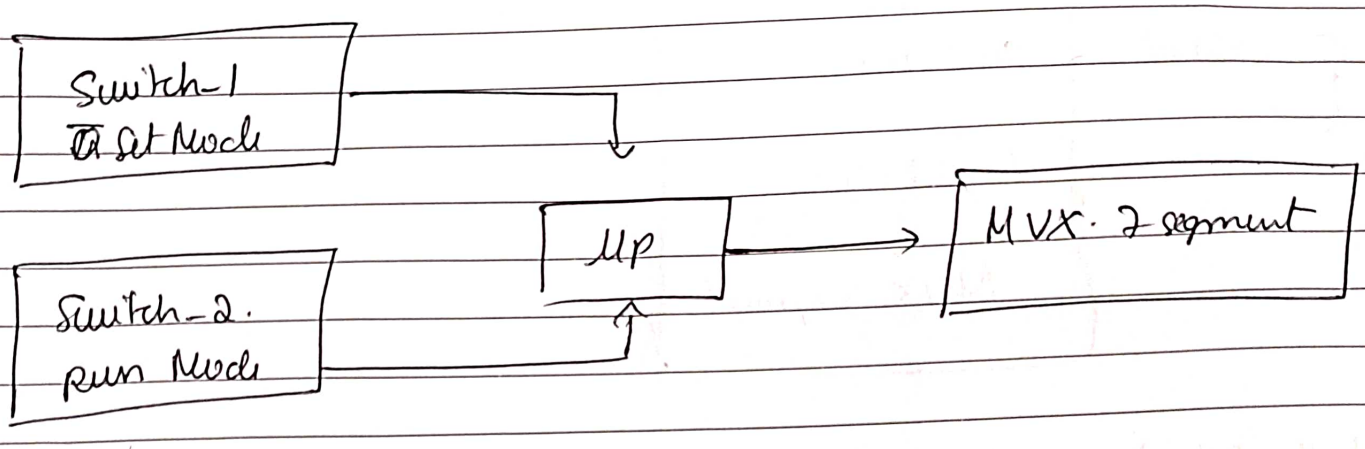
Use Case-1 Run Mode.



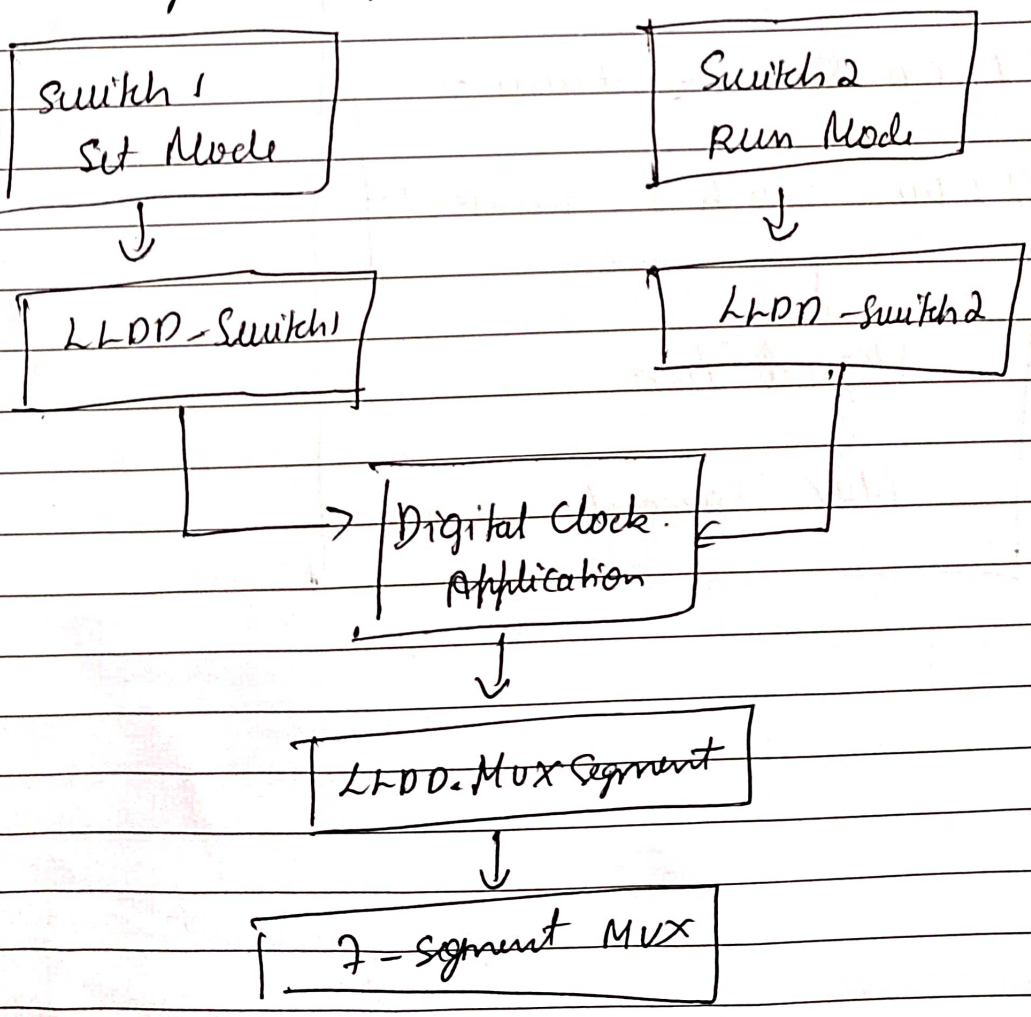
Use Case-2 Set Mode.



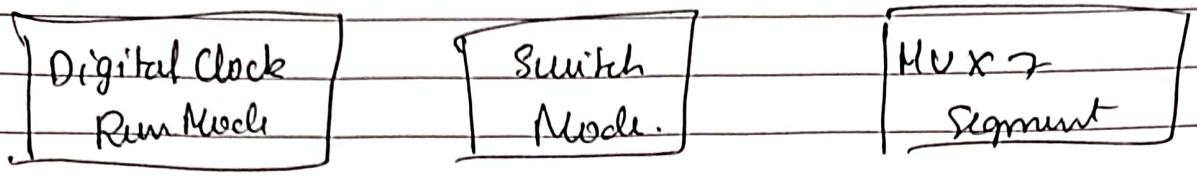
Block diagram Hardware:

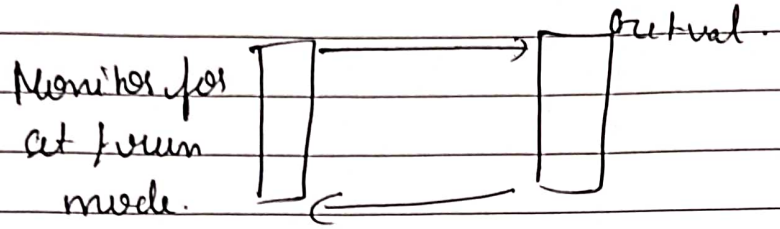


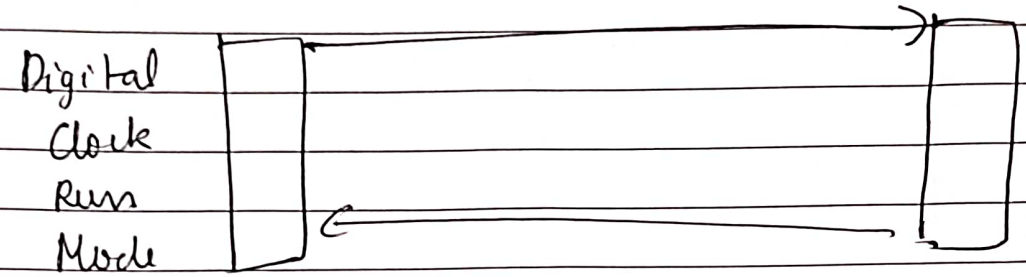
Block diagram Software:



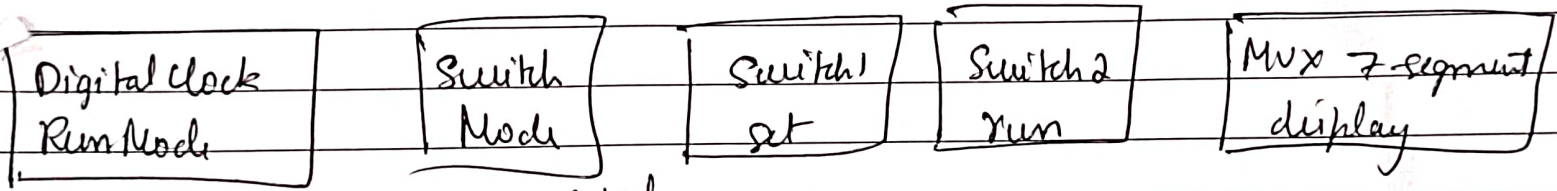
UC-1. run mode.

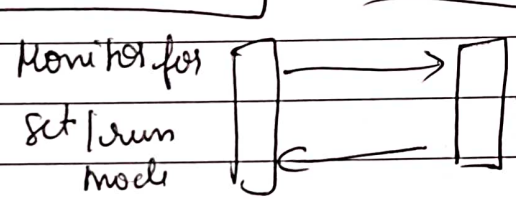


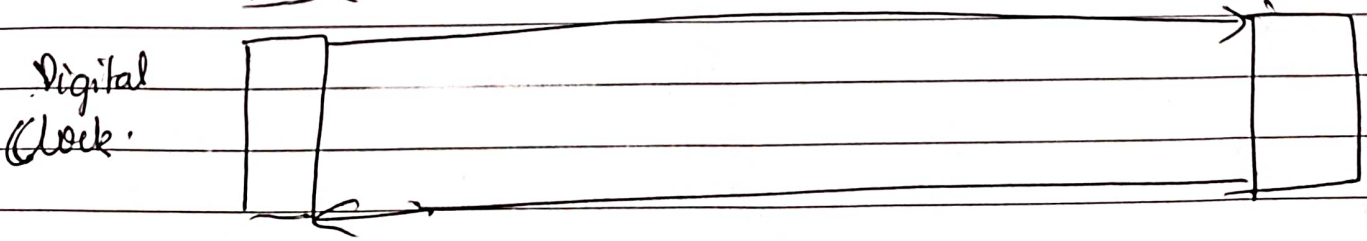




UC-1 Set Mode.

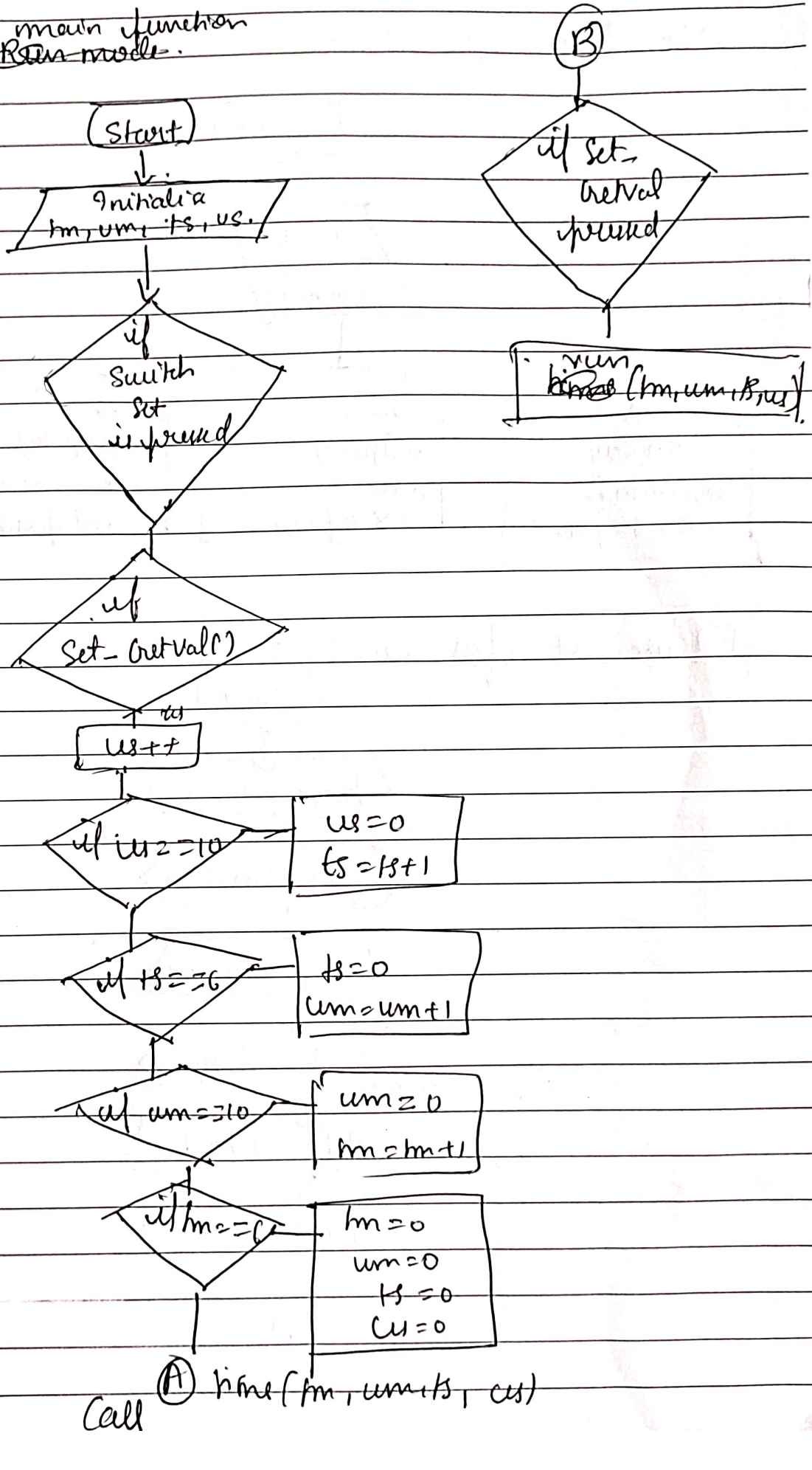




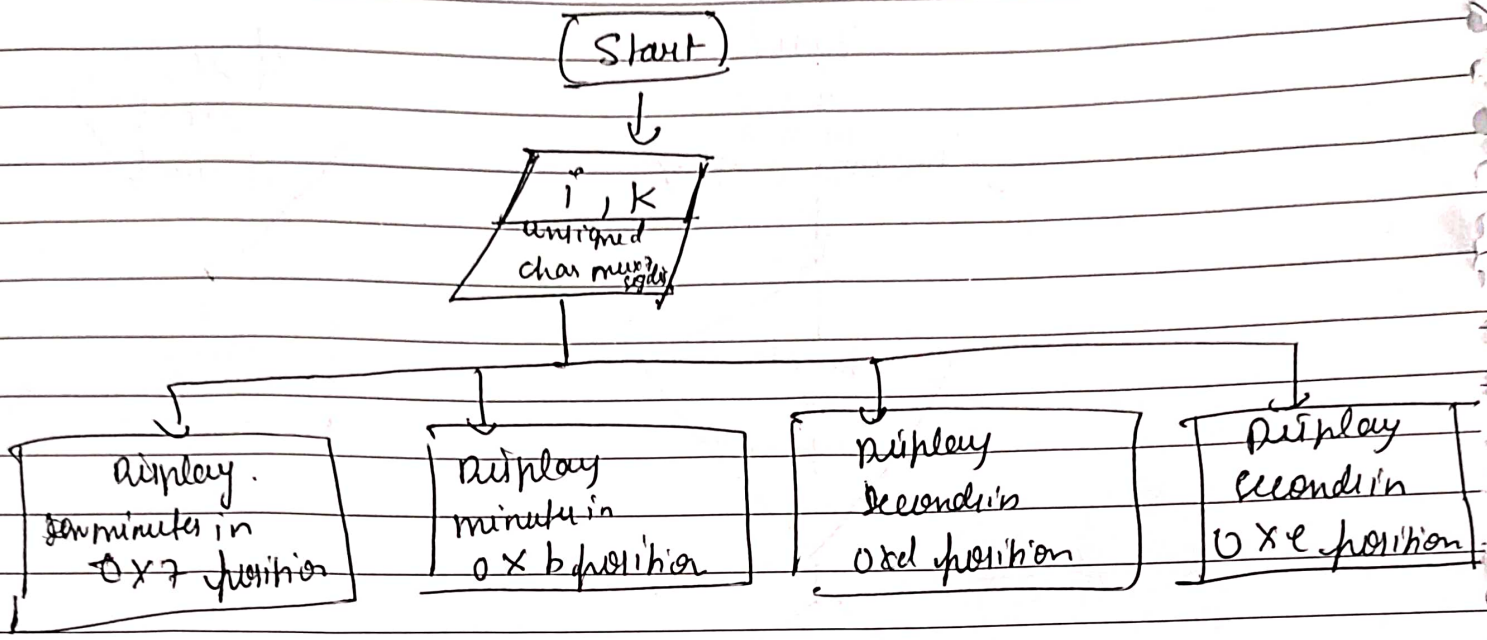
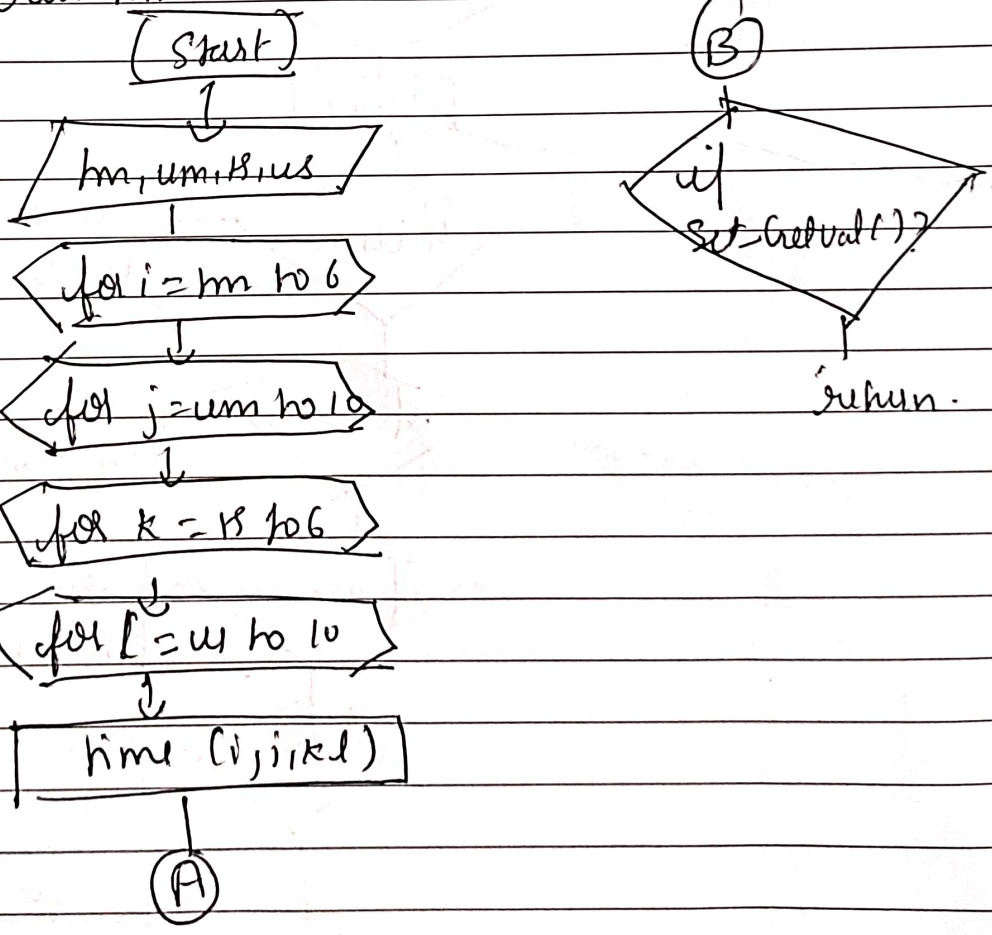


Flowchart

Flowchart for main function



Flowchart for Set time.



Flowchart for run time.