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# Introduction of digital clock

This program will generate a digital clock using c program. The logic behind to implement this program.

* Initialize hour, minute, seconds with 0.
* Run an infinite loop.
* Increase second and check if it is equal to 60 then increase minute and reset second to 0.
* Increase minute and check if it is equal to 60 then increase hour and reset minute to 0.
* Increase hour and check if it is equal to 24 then reset hour to

# Code:-

// A digital clock using C

// Import the header files

#include <stdio.h>

#include <time.h>

#include <unistd.h> #include <stdlib.h> int main() {

int hour = 0;

int minute = 0; int second = 0; while(1) {

// Clear the output on screen // for windows use system("cls") system("clear");

// Print the time in HH : MM : SS format printf("%02d : %02d : %02d ",hour,minute,second);

// Clear the output buffer in gcc fflush(stdout); // Increment second second++;

// Update hour, minute and second if(second == 60) {

minute += 1;

second = 0;

}

if(minute == 60) {

hour += 1;

minute = 0

}

if(hour == 24) {

hour = 0;

minute = 0;

second = 0;

}

// Wait for 1 second sleep(1); }

return 0;

}



# Advantage of digital clock

* Less expensive
* Easy to understand time concept
* Give time more accurately then analog clock
* Easier to read time

# Disadvantage of digital clock

* Emitting blue light, which can be detrimental to your sleep schedule. A digital clock may not be the best choice for your bedside table.
* Being distracting for sleep. If you have a digital clock next to your bed, the light itself may keep you from falling asleep if it is too bright.
* May not work in power outage. • Being generally more expensive than analog clocks.

# Summary of digital calock

Digital clocks are often associated with electronic drives, but the "digital" description refers only to the display, not to the drive mechanism. (Both analogue and digital clocks can be driven either mechanically or electronically, but "clockwork" mechanisms with digital displays are rare.)

# Conclusion

Regarding accurate time tracking, digital and biometric clocks are both excellent tools. However, there are certain distinct advantages to using a software-based clock in and out system. The device you use will rely on your requirements, the size of your team, and your budget.

# Reference

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