**ALARM CLOCK**

**DIVYAPRATAP SINGH CHAUHAN**

RA2111026010166

CSE W/S AI ML

BU16600

Under the guidance of **DR. VIJAY VASANT A**

**GitHub Repo:** github.com/Divyapratap-Singh-Chauhan/Alarm-Clock

**Time is a very important aspect of our lives and every second of it determines our future and what comes ahead. Management of time in our life plays a very important role. A very useful instrument that helps us in this process is an Alarm Clock. It helps us stay updated with the current time and reminds us for the important events and makes us keep up with our day to day life.**

**This project is a simple C language based programme to alert user at the specified desired time. The programme takes input from the user for the desired time to be alert and the current time. It displays the current time in real time and gives an alert message when the current time reaches the specified time.**

**C language is used because of its ability to provide system level details features like direct access to memory and bit manipulation and being a middle level language gives a good degree of abstraction to the user.**

**Due to its origin from the time of Unix systems many modern day operating systems, applications, device drivers and kernels are based on C.**

**C offers wide variety of built in functions, standard libraries and header files. This makes programming a “cake walk” for programmers and that is a great advantage for todays engineers who demand faster result in lesser amount of work.**

* **Algorithm for the Programme**

**START**

1. **Use Void method**
2. **Declare variables for Current time**
3. **Declare variables for Alarm time**
4. **Declare variable for time loop.**
5. **Clear screen**
6. **Print "Current Time"**
7. **Print "Hours:"**
8. **Store values of input from console**
9. **Print "Minutes"**
10. **Store values of input from console**
11. **Print "Enter Alarm Time"**
12. **Print "Hours:"**
13. **Store values of input from console**
14. **Print "Minutes:"**
15. **Store values of input from console**
16. **Print "Seconds"**
17. **Store values of input from console**
18. **Use while(1) for infinite loop**
19. **Enter for loop to check hours**
20. **Enter for loop to check minutes**
21. **Enter for loop to check seconds**
22. **Clear screen**
23. **If alarm time == current time**
24. **Print "ALARM"**
25. **Delay 5 sec**
26. **Else print current time**

**END**