



# BANNARI AMMAN INSTITUTE OF TECHNOLOGY

An Autonomous Institution Affiliated to Anna University - Chennai • Approved by AICTE • Accredited by NAAC with 'A+' Grade

SATHYAMANGALAM - 638401 ERODE DISTRICT TAMILNADU INDIA

Ph: 04295-226000/221289 Fax: 04295-226666 Email: stayahead@bitsathy.ac.in Web: www.bitsathy.ac.in

## TECHNICAL APPROVAL COMMITTEE

### GUIDE APPROVAL FORM

Date: 06 / 09 / 2023

Starting Date of Work				
Sl. No.	Student Name	Reg. No.	Role	Signature
1	JANANY I	7376222CT119	Team Leader	<i>Janany I</i>
2			Team Member	
3			Team Member	
4			Team Member	
5			Team Member	
6			Team Member	
7			Team Member	
8			Team Member	
9			Team Member	
10			Team Member	
Applying for the work:		Project		
Title of Work		SMART ALARM CLOCK		

(To be Filled by Faculty In charge)

No. of students: 1

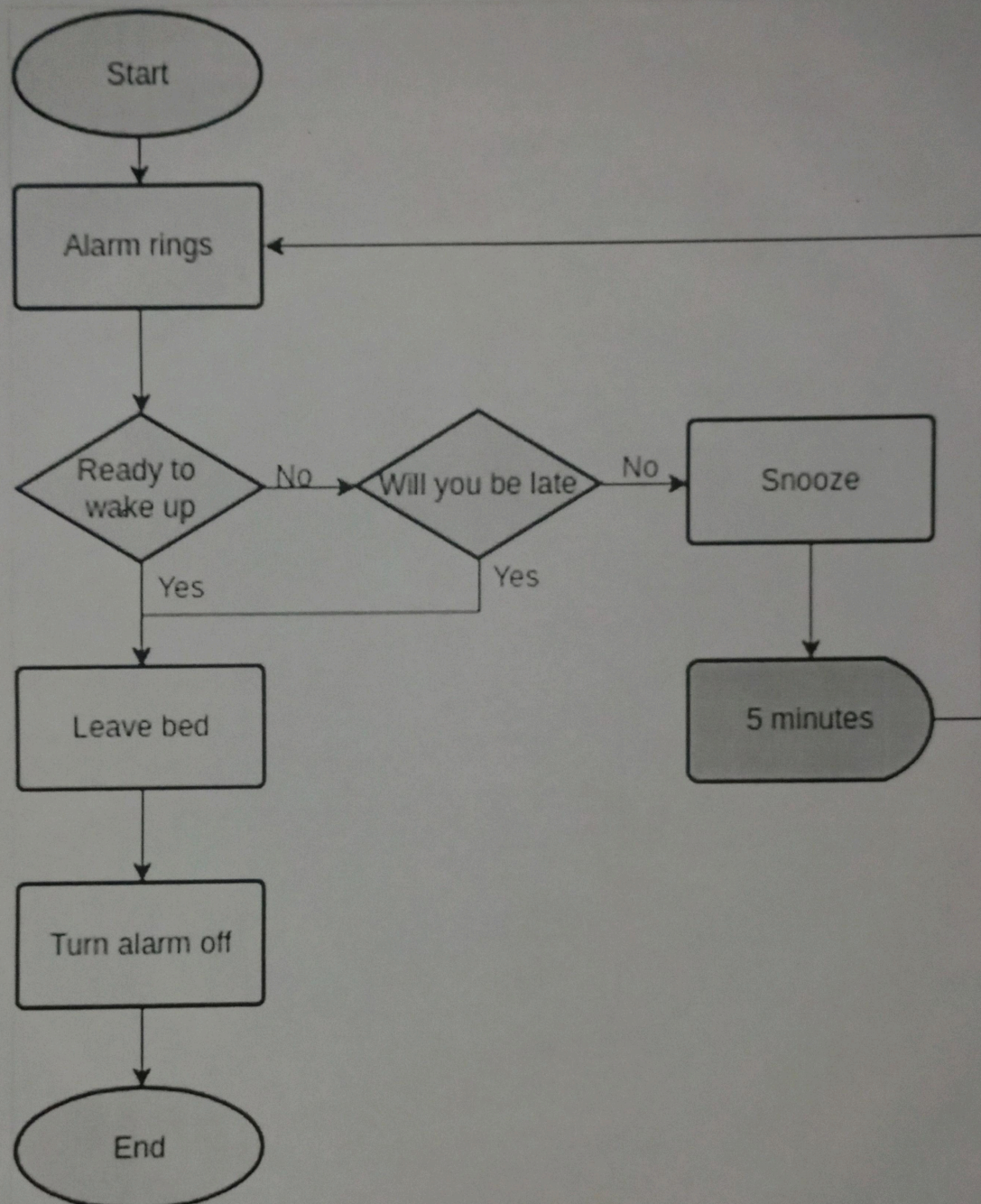
I acknowledge that I will act as a faculty in charge for the aforementioned students and guide them to complete the work by adopting the guidelines provided.

Lab Name: *SLB081. Cyber Security Lab*  
(In case of Faculty belonging to any special lab)

*Manesh Kumar*  
Name & Signature of the Faculty In charge  
with the date  
*K. MANESH KUMAR*



# FLOWCHART:





## IDEA/APPROACH DETAILS:

### METHODOLOGY:

- For creating a smart alarm clock using python with help of Tkinter module for the graphical user interface (GUI) and winsound module for playing the alarm sound.
- Firstly the required modules are imported.
- Then a function is created that checks the current time against the set alarm time.
- If the current time matches the set alarm time, it plays the alarm sound and breaks out of the loop.
- Then another function is created that retrieves the alarm time set by the user and passes it to the alarm function for checking
- Finally the GUI for the application is created and the labels, entry fields and buttons for setting the alarm clock are created.

### OBJECTIVES:

- To design and develop a user-friendly interface for setting alarm preferences.
- To incorporate intelligent features such as sleep tracking and analysis.
- To integrate connectivity options for seamless synchronization with other smart devices.
- To implement a customizable alarm system with multiple sound options.
- To evaluate the effectiveness of the smart alarm clock in improving routines and overall sleep quality.

### REQUIRED TECHNOLOGIES:

- Design and Development
- Testing and Integration
- Evaluation Analysis
- Data Analysis
- Results and Analysis

Signature of Faculty In Charge

K. MANEESH KUMAR