
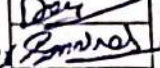

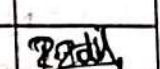
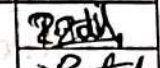
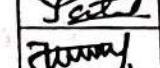
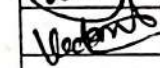
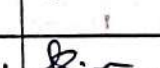
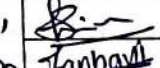
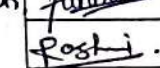

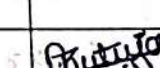
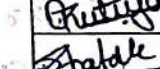
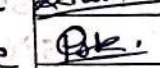
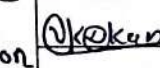
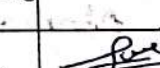
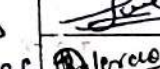

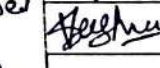



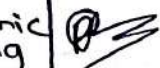
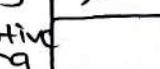


Innovative Method

SE IT AY 2022-23 Sem II Date: 26/04/2023

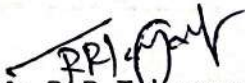
POs mapped: 1,2,3,5,6,9,10,11,12

PSOs mapped: 1, 3

Gr. No.	Roll No.	PIC 18 Application selected (System)	Hardware Requirement	Software Requirement	Expected Cost of System	Scope	Sign
1	TL-69	Valdehi Digital volt-meter using 8051 microcontroller. This is a simple digital voltmeter circuit designed using 8051 microcontroller.	AT89C51 micro controller ADC0804 IC 25V voltage sensor Variable resistor DC adapter	Operating System MPLAB	₹ 3000	Systems using voltmeter	   
	14						
	73						
	74						
2	TL-57	Piyush Line Identification CLJ - Calling Line Identification	2 GB RAM 512 MB of hard disk PIC-18 IC	Windows 7 or above MPLab PIC-loader	₹ 3560	Can be used to detect spam calls	   
	58						
	52						
	55						
3	TL-02	Mood Vase - A beautiful vase which is switched on in dark is detected.	PIC18 Micro-controller LED, resistors, transistors zener diode	MPLab, Hi-tech C Compiler lite mode.	₹ 810	security, decoration Street light.	   
	07						
	16						
	38						
	TL-12	Fingerprint Based Biometric ATM Authentication System	BUZZER, LCD, Battery, keypad, PIC18F 2620	Biometric Software C language	₹ 38000	More Secure. No fake transaction.	   
	27						
	29						
	23						
	TL-17	Temperature Data Logger	PIC18F4550, USB to serial cable, computer, sensor (LM35)	MP Lab, Windows 7 OS PIC loader	₹ 4700	Continuous display of temperature can be used in food processing factories	   
	06						
	56						
	64						
	8	Pratik Borade Rohit Dahatonde Ryshikesh Kusthore Yash Patil	Microcontroller transistor Diode capacitor bread-board MOSFET power	MPLab IDE, PIC-loader	₹ 1414	PC cooling Industrial automatic Electronic cooling Automotive cooling HVAC	   
	10						
	30						
	45						

Gr. No.	Roll No.	PIC 18 Application selected (System)	Hardware Requirement	Software Requirement	Expected Cost of System	Scope	Sign
6	TL- <sup>15</sup> 68	LED DICE with PIC	PIC 18 LEDs Resistors Capacitors Power supply Reset switch connecting wires	MPLAB IDE MPLAB x8 Proteus as any other simulators	₹1000	Gaming Education Entertainment Promotion Decoration	<u>Aditya</u> <u>Yash</u> <u>Abhishek</u> <u>Govind</u>
	44						
	12						
	65						
7	TL-	48 channel Mono/ 16 channel RGB LED controller	1) PIC Microcontroller 2) LED Drivers 3) RGB LED Drivers 4) Power supply 5) LED Array	1) control Software 2) communication Protocol 3) user Interface	₹1500	1) lighting control 2) stage lighting 3) Automotive Lighting	<u>Aditya</u> <u>Yash</u> <u>Nikhil</u> <u>JKR</u>
	40						
	32						
	37						
8	TL-	DTMF Based Home Automation system circuit	1) microcontroller 2) LED 3) Registers 4) sensors 5) Battery	1) MPLAB 2) XC8 compiler 3) PIC loader 4) Arduino	₹2000	1) smart Home 2) Enhance security	<u>Govind</u> <u>Aditya</u> <u>Beate</u> <u>Mur</u>
	71						
	72						
	70						
9	TL-	Remotely Controlled android based electronic notice board	1) LCD 2) WiFi module 3) Power supply 4) Android phone	1) Connection Terminal App, 2) short messaging system (SMS)	₹5000	LCD Display can be replaced by other LCDs educational premises exam schools	<u>Anarjan</u> <u>Aditya</u> <u>Govind</u> <u>Govind</u>
	31						
	33						
	34						
10	TL-	Solar Energy measurement system	5) micro-controller 1) solar panel 2) power supply 3) Battery 4) Keypad 5) Register	1) measure- ment system	₹1500	1) Agricult- ural Field 2) Home appliances	<u>Govind</u>
	53						
	60						
	62						
11	TL-	Automatic Railway Gate controller system.	1) microcon- troller 2) sensor 3) load section	IR sensor	₹1250	Automatic railway gate control system reduce the time of remain- closed	<u>Balraj</u> <u>Govind</u> <u>Govind</u>
	01						
	11						
	61						
12	04	Digital clock using PIC	PIC 4550 DS1307 RTC 16x2 LCD	compiler Project files c source files ICF8P-RTC	₹1200	For keeping track of Time	<u>Aditya</u> <u>Aditya</u> <u>Arka</u>
	05						
	22						

Roll No.	PIC 18 Application selected (System)	Hardware Requirement	Software Requirement	Expected Cost of System	Scope	Sign
12	Interfacing DC motor with 8051 microcontroller	1) 8051 2) DC motor 3) PC 4) 2KB RAM	1) Win7 2) MPLAB IDE 3) PIC Loader	₹ 2990	1) Robotics 2) IOT 3) Home Automation 4) Industry	<del>Devi</del>
75						Tanay
50						Pranav
37						Jayant
32						
13	Water level Indicator	1) stainless steel probe sensor 2) LED 3) Sounder 4) Buzzer	1) ATMEGA8 2) MPLAB IDE 3) MPLAB XCP compiler	₹ 483	1) Hotels 2) open wells 3) Borewells 4) Factories	Khanate
76						
49						
67						

  
 Ms. R. R. Tajanpure  
 Subject Teacher

Innovative Method - Scratch to Model

Application:- Line Identification (CLT)

Team name:- Fab-4

Team members:- Rollno	Name	Sign
47	Piyush Yogesh Patil	
48	Yogeshwar Jitendra Patil	
52	Tanmay Pramod Patil	
55	Vedant Hemant Sankar	

Team leader:- Tanmay Pramod Patil

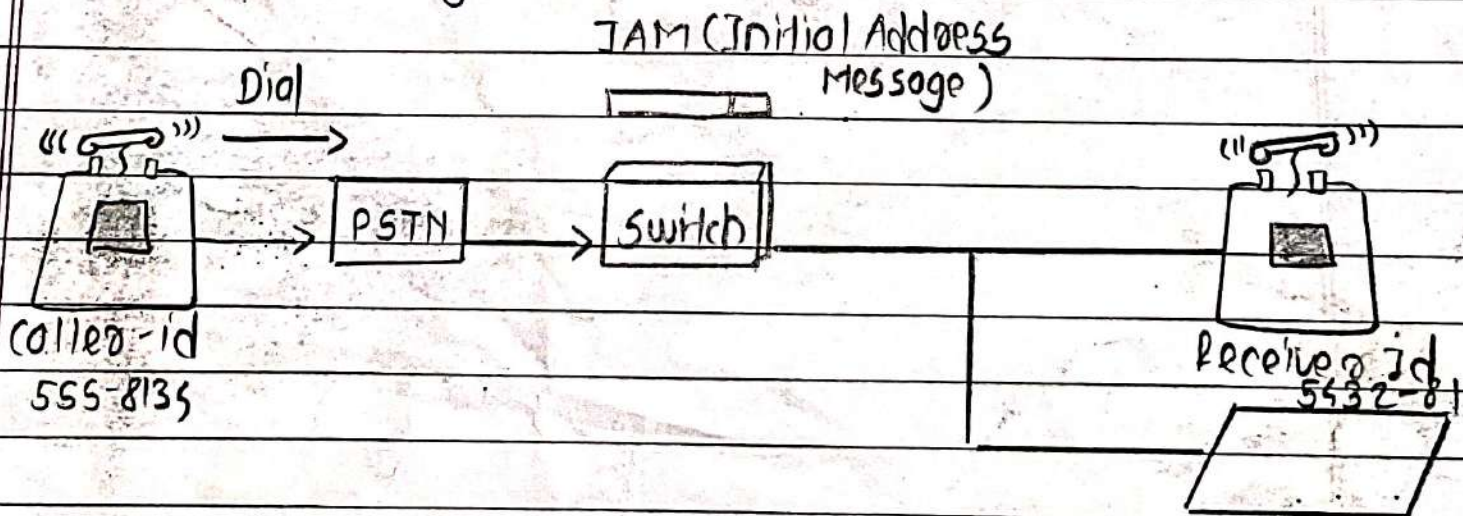
1] Hardware requirements:

- 2 gigabytes (GB) of RAM or above
- 512 megabytes (MB) of available space on the hard disk.

2] Software requirements:

- Windows 7 (32-bit or 64-bit) or above
- Mac OS X versions 10.9 (Mavericks) or later
- MPLab X IDE
- PIC-Loader

3] Connection diagram:



- 4] Estimate System Cost:
- Display (Digital) — ₹ 320
  - PTC18 — ₹ 1200
  - Circuit Board — ₹ 90
  - Command Line switches — ₹ 350
  - Developer's charge — ₹ 1500
  - Total: ₹ 3560

- 5] scope of your application:
- 1] It can be used for analog as well as digital
  - 2] So the receiver can avoid spam calls.
  - 3] Truecaller is the best example of CLI