End-Term Lab Examination

Sai Ram. K

20181CSE0621

25-05-2021

Allotted Questions - 20181CSE0621 Q.17&33

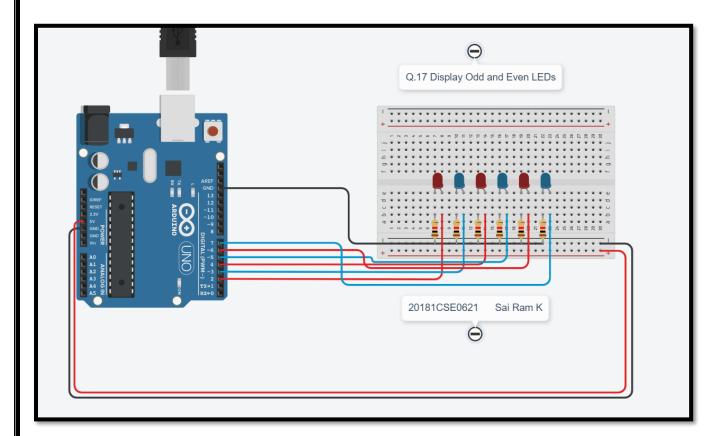
Question No-17: Write and execute a program to Blink 5 LEDs alternatively or Displaying 6 LEDs ODD and EVEN fashion.

Question No-33: Raspberry pi program to implement blinking LED.

Q.17]

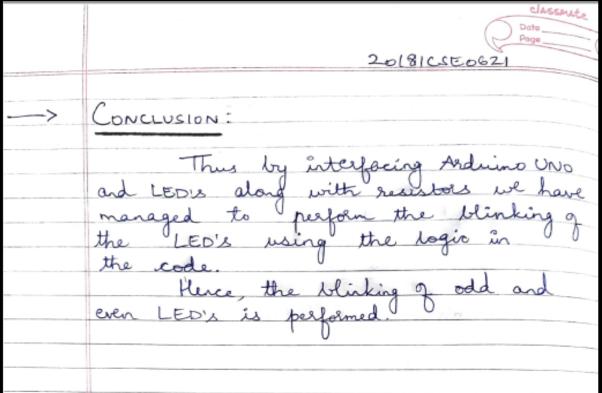
	Page Date
	25/05/2021 20181CSE0621 SAI RAM.K 6-CSE-10
	Q.17 & Q.33
0.17	Blinking Odd of Even LED's
_>	AiM: To display and blink the LED's in odd of even format
->	COMPONENTS: 1. Arduino UNO 2. Breadboard Small 3. Jumper wires 4. LEDIS 5. Resistors.
->	Initial Circuit Design:

Initial Circuit Design: -

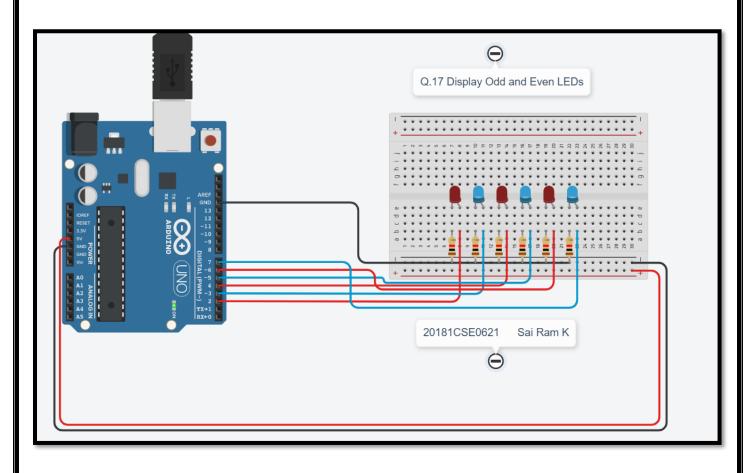


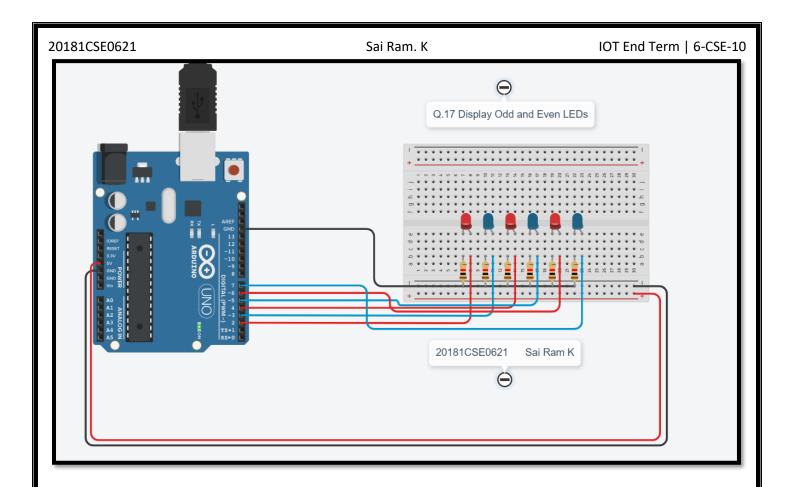
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Classmate
                                                 Date____
                                20181CSE0621
-> CODE:
    int pins [] = {2,3,4,5,6,7};
int mod = 0;
         pinMode (pins [i] OUTPUT);
        Sexial begin (9600);
     void loop ()
         int del=1000;
         Serial printin (mod);
         for(inti=0; ix6; i++)
             if (1.1.2 == mod)
            digital Write (pins(i), HIGH);
else {
    digital Write (pins(i), Low);
             mod - - ;
             mod = abs (mod);
            delay (del);
```



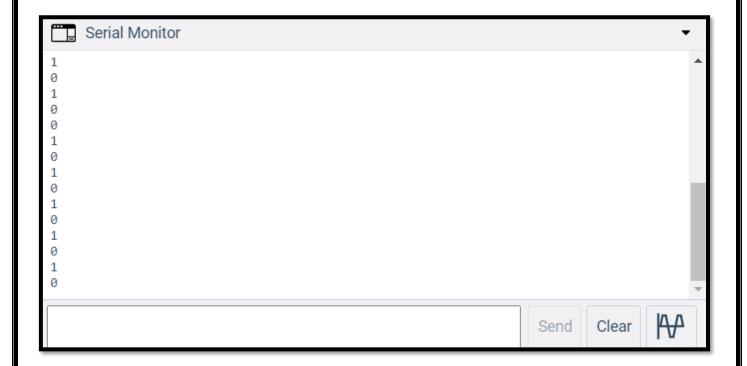


Output: -





Serial Monitor: -



Q. 33]

Raspberry Pi Blinking Led

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2.33		BI	inking z	LED	
_>	AIM:	To inde	ment th	e blinking o	150 11:00
		Rainberra	Pi	e blinking of	Less using
			1		
_>	COMP	ONENTS:	1. Rasp	berry Pi	
			2. VGA	(1)	
				ver cable	
			4. Jum	per Cable	
			5. LED	_	
			6. Resi	stor	
	8				
_>	PIN C)טד :			
		3.3v			
		3.3V GP102	# E	5 V 5 V	
		GiPin3	M 00	GIND	
		GP104	n 8	G1P10 14	Pins above
		GND	R B	61P1015	the line
		GP1017	10 億	O1 P10 18	are
		GP1027	图 图	GND	Tresent
		GP1027 GP1022		GIND GIP1023	on all
				G1P1023 G1P1024	
		GP022		G1P1023 G1P1024	on all
		GP1022 3.3V		G1P1023 G1P1024 G1N1D G1P1025	on all
		GP022 3.34 99010		G1P1023 G1P1024 G1N1> G1P1025 G1F108	on all
		GPO 22 3.3V GPTO 10 GPTO 9		G1P1023 G1P1024 G1NID G1P1025 G1F108	on all
		GRO22 3.34 GRO10 GRI09 GRI011		GIPIO23 GIPIO24 GINID GIPIO25 GIFTUS DICTOR	boards
		GRO 22 3.34 GRO 10 GRIO 9 GRIO 11 GND DNC GRIO 5		GIPID 23 GIPID 24 GINID GIPID 25 GIFTUS GIFTUS DINC	boards - Paul below
		GPO 22 3.3V GPO 10 GP 10 9 GP 10 11 GND DNC GP 10 5 GP 10 6		GIPIO23 GIPIO24 GINID GIPIO25 GIFTOR DILIDAL DINIC	Paribelow Luc are
		GRO22 3.34 GRO10 GRI09 GRI011 GND DNC GRI05 GRI05 GRI013		GIPID 23 GIPID 24 GINID GIPID 25 GIFTUR GIFT	Pari below him are found the
		GRO22 3.34 GP1010 GP109 GP1011 GND DNC GP105 GP105 GP1013 GP1013		GrP1023 GrP1024 GrNID GrP1025 GrF108 GrF108 GrF107 DNC GrN10	Part below Line are found the At Et
		GRO22 3.34 GRO10 GRI09 GRI011 GND DNC GRI05 GRI05 GRI013		GIPID 23 GIPID 24 GINID GIPID 25 GIFTUR GIFT	Pari below Line are found the

	2018(CSE062)						
>	Procedure	-					
Step1:	: Assemble all the required component and refer pin out diagram. Connect the LED as per the telow diagram.						
	D D D D D D D D D						

2015 (CSEC 621 Tapol RPi GPO as GPO import time GPIO. Setmode (GPIO.BM) GPIO. Setup (18, GPIO.OUT) GPIO. Dutput (18, GPIO.HIGH) time. sleep(3) GPIO. elecupe) Step 4: Execute the code and you will find that the LED stouts to glow -> CODE: import RPi GPIO as GPIO import time GPIO. setmode (GPIO.BCM) GPIO. setup (18, GPIO.+OUT) GPIO. setmode (18, GPIO.+OUT) GPIO. output (18, GPIO.+OUT)	E0621	Sai Ram. K	IOT End Term
import RP: GPIO as GPIO import time GPIO. setmode (GPIO.BM) GPIO. Setup (18, GPIO.OUT) GPIO. Setup (18, GPIO.HIGH) time. sleep(3) GPIO. sutput (18, GPIO.LOW) GPIO. cleanupe) Step 4: Execute the code and you will find that the LED starts to glow -> CODE: import RP: GPIO as GPIO import time GPIO. setmode (GPIO.BCM) GPIO. setup (18, GPIO.DUT) GPIO. output (18, GPIO.HIGH) time. sleep (3) GPIO. output (18, GPIO.20W)			-5
import RP: GPO as GPO import time GPIO. setmode (GPIO.BM) GPIO. setup (18, GPIO.OUT) GPIO. output (18, GPIO.HIGH) time. sleep(3) GPIO output (18, GPIO.LOW) GPIO. cleanupe) Step 4: Execute the code and you will find that the LED starts to glow -> CODE: import RPi. GPIO as GPIO import time GPIO. setmode (GPIO.BCM) GPIO. setup (18, GPIO.DOT) GPIO. output (18, GPIO.HIGH) time. sleep (3) GPIO. output (18, GPIO.20W)	-	2018 (550 621	
import time GrP10. setmode (GrP10.BCM) GrP10. setmode (GrP10.BCM) GrP10. setup (18, GrP10.HIGH) time. sleep(3) GrP10 output (18, GrP10.LOW) GrP10. cleanupe) Step 4: Execute the code and you will find that the LED starts to glow -> CODE: import RPi. GrP10 as GrP10 import time GrP10. setmode (GrP10.BCM) GrP10. setup (18, GrP10.DOT) GrP10. output (18, GrP10.HIGH) time. sleep(3) GrP10. output (18, GrP10.20W)	Step3:	Weite the python program	_
GPIO. Setmode (GPIO.BIM) GYPIO. Setup (18, GPIO.OUT) GPIO. Sutput (18, GPIO.HIGH) time. sleep(3) GPIO. sutput (18, GPIO.LOW) GPIO. cleanupe) Step 4: Execute the code and you will find that the LED starts to glow -> CODE: import RPi. GPIO as GPIO import time GPIO. setmode (GPIO.BCM) GPIO. setup (18, GPIO.DUT) GPIO. output (18, GPIO.HIGH) time. sleep (3) GPIO. output (18, GPIO.20W)		inport RP: GPO as GPO	
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Step 4: Execute the code and you will find that the LED starts to glow -> CODE: import RPi, GPIO as GPIO import time GPIO. Setmode (GPIO. BCM) GPIO. Setup (18, GPIO. +OUT) GPIO. Output (18, GPIO. +IGH) time. bleep (3) GPIO. output (18, GPIO. 2010)			
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-> CODE: inport RPi, GPIO as GPIO inport time GPIO. Setmode (GPIO. BCM) GPIO. Setup (18, GPIO. DUT) GPIO. output (18, GPIO. HIGH) time. pleep (3) GPIO. output (18, GPIO. 2010)	= = 3	GIPIO. cleanupe)	
-> CODE: inport RPi. GPIO as GPIO inport time GPIO. Setmode (GPIO. BCM) GPIO. Setup (18, GPIO. DUT) GPIO. Output (18, GPIO. HIGH) time. sleep (3) GPIO. output (18, GPIO. 2010)	Step 4:	Execute the code and you will find the LED starts to dow	that
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GP10. setup (18, GP10. DUT) GP10. output (18, GP10. HIGH) time. sleep (3) GP10. output (18, GP10. 20 W)		inport time	
GP10. output (18, GP10. HIGH) time. sleep (3) GP10. output (18, GP10.200)		GIPIO. Setmode (GIPIO. BCM)	
GP10. output (18, GP10.20W)			
GP10. output (18, GP10.200)		GP10. output (18, GP10. HIGH)	
		time, sleep (3)	
GP10. eleanup().		GP10. output (18, GP10.200)	
		GPIO. eleanup().	
	-		

