		MARKING SCHEME					
PROGRAMME:		INDUSTRIAL AUTOMATION & ROBOTIC					DURATION
TOPIC:		PROGRAMMING MICROCONTROLLER – PROTEUS SIMULATION					3 HOURS
CODE / SUBJECT:		DMR40333 / EMBEDDED SYSTEM					ASSESSMENT
	DENT NAME:	DININASSSY EMBEDDED STSTEM	10200E0 3131EM				LAB 1
SEM/SESSION: SEMESTER 4 / SESSION JANUARY - JUNE 2023							
		Criteria		Basic Mark	Factor/ FP	Obtain Basic	Full Mark
No.			WORK PROCESS			Mark	
	SECTION A [RESULT]						
	Result No.1 (Simulation 1)						
	- Play Button is ON		No any	0			
	- Any LED is light up - Output signal on Arduino pin is light up for which LED is ON		Any 1	1	3		9
			Any 2	2	3		9
			All	3			
	Result No.2 (Modified Circuit)						
	- Connection BUTTON to any Arduino pin		No any	0	-		
	- Connection +5V to		Any 1	1			
		r 10kΩ to BUTTON at Arduino pin	Any 2	3	3		15
	- Connection resistor $10k\Omega$ to GROUND - Use PULL-UP Resistor switch circuit		Any 3 Any 4	4			
Α			All	5			
^	Result No.3 (Modifi	ed Program)	[/10]				
	- Declare BUTTON pin No any 0						
	- Declare LED 5 and		Any 1	1	1		
	- ledBlink function		Any 2	2	1		
	- Correct ledBlink delay time		Any 3	3	4		20
	- Correct if() function	n for ledBlink()	Any 4	4	1		
	- Correct else() function for LED chase		Any 5 and above	5]		
	Result No.4 (Simulation 2)						
	- Play Button is ON		No any	0			
	- LED 5 and 6 are ligi	-	Any 1	1	3		9
	- push BUTTON is ho	old pressed	Any 2	2			
	SECTION B [DISCUS	SION 1	All	3			
	Discussion No.1	31011]					
				T	1	T T	
	Correct as given marks (Total 4 marks)					4	
	Discussion No.2						
	Correct as given marks (Total 7 marks)						7
	Discussion No.3						
В	Correct as given marks (Total 5 marks)					5	
	Discussion No.4						
	No attach any 0						
	Partial observation by student			1	2		10
	Wholy observation by student but no relate to objective			2			
	Wholy observation by student and related to objective but not complete			3			
	Wholy observation by student, related to objective completely but not discuss solution			4			
	Wholy observation by student, related to objective completely and discuss solution 5						
	SECTION C [CONCLI	JSION]		T -	1	T	
С	Not attach any			0			-
		out not completety relate with the result obt	ain	1	2.5		5
	Make a conclusion and completety relate with the result obtain 2						
TOTAL (A + B + C)							84
	TOTAL / 84 X 100%						
LECTURER			SIGNATURE			DAT	E