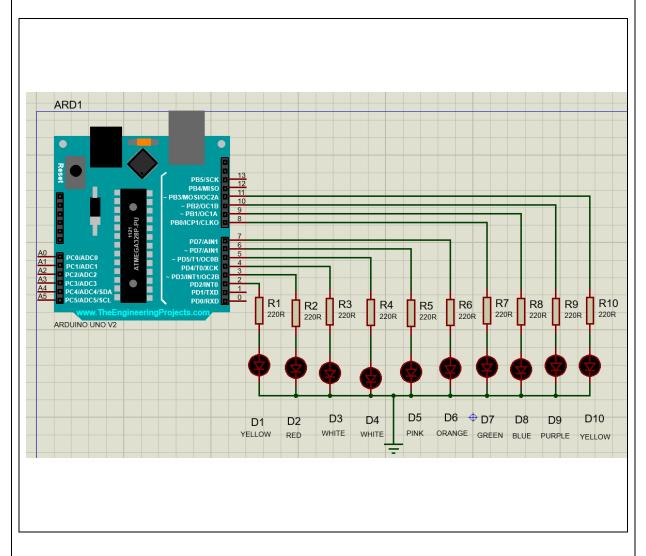
RESULTS:

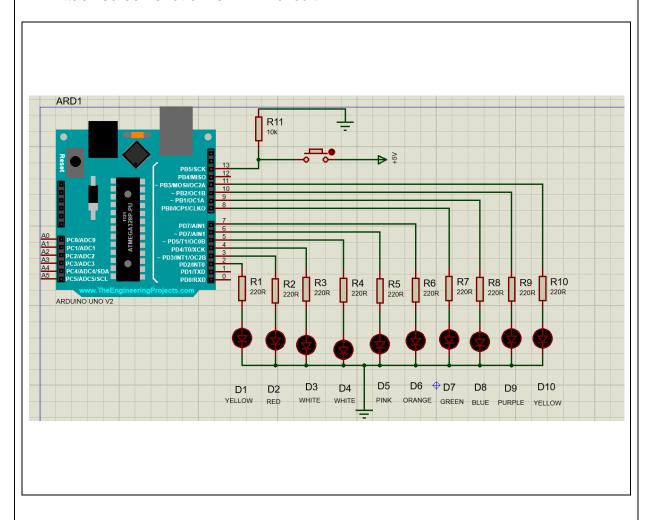
TASK 1

1. Attach screen shot of LED circuit with LEDs chasing (any LED light up).



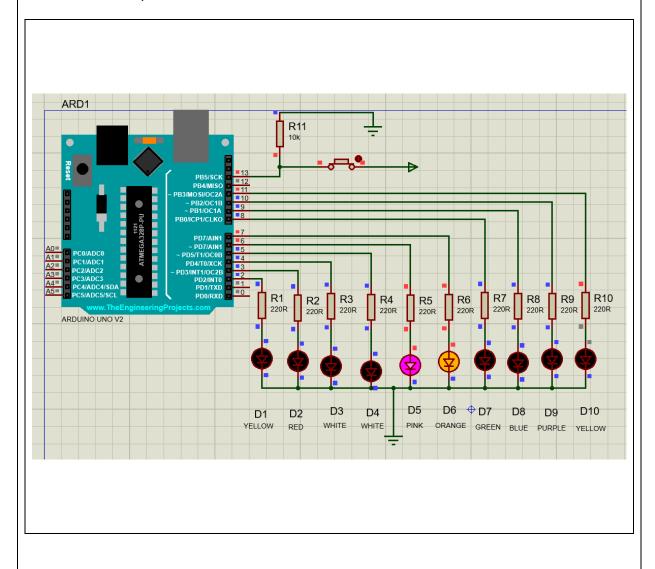
TASK 2

1. Attach screen shot of new LED circuit.



2. Write modified program.

3. Attach screen shot of new LED circuit with LED 5 and 6 light up with push BUTTON is pressed.



DISCUSSION:				
1.	Explain the function of for (int thisPin = 3; thisPin < 12; thisPin++) in the program.			
	(4 marks)			
	Declare pin 3 until pin 12. This is used to arrange the sequence of lighting the LED starting from pin 3 until pin 12. The LED connected to the pins will light up individually for 500ms and then turn for 500ms starting from LED at pin 3 until LED at pin 12.			
2.	2. Write the function of ledBlink() if LED 1 and LED 10 used to blink ON and OFF			
	300ms delay. (7 marks)			

3.	Sketch a circuit of push BUTTON with PULL-UP resistor to any Arduino UNO (just 1 pin label) for trigger-LOW (Active LOW) function. (5 mar	•
4.	Discuss your observation on this experiment and relate your finding to objective (10 mars)	
	There were 2 main functions that Arduino can read, which were void setup () and void loop (). The program placed in void setup () would be read once ar void loop () would be repeated until the program ended. If else argument we used to determine the function of the switch. 2 more sub-function were added control the switch action. When the pushbutton is pushed, the pull-up circuit activates LED 5 & LED 6. This occurs because when the pushbutton is pressed Arduino will get HIGH input (+5V) and when released it will get LOW input (0V)	re to ed,

CONCLUSION:

Conclude this experiment relates to result obtain.

Based on this experiment, Arduino 'blink' program was compiled by using a function and 'if else' statement. 10 LEDs were used to demonstrate the 'blink' program the lights are lit in turn with the 500 milliseconds delay. For pull-up resistor switch was shown by using 'if else' statement. Pull-up is used to eliminate the GREY area. When the button is pushed, it will send HIGH input and it will send LOW input when button released.