PROGRAM No: - 3 1BM18CS140 PROGRAM TITLE :- FADING LED USING POTENTI OMETER HIM: Demonstrate to show LtD fadry (Analog output) ARDUINO Board, LED, connectify wise Harduare Regularments: Respstol. Circuit Diagram: Void Setup () (ode:-Serval. begin (9600); pin Mode (9, OUTPUT); analog = analog Road (Ao); int brightness = map (analog, 0, 1023, 0, 255); analog Write (9, brightness);
Serial brist (" n Analog value");
Serial print (analog); Serial · point ("In Brightness value"), Sovial print (brightness); Scanned with CamScanner

Sou Srivam. V

Program No. 4

Program Title: Fading LED

Azm: - Demonstrate to show Fading LED.

HARDWARE REQUIRED: - Ardwino Board, LED, Connectify wire,

Christ Diagram:
Standard Diagram:
Standard

CODE: int brightness = 0;

Void Setup (\*)

{ pin Mode (11, OUTPUT); }

Void loop ()

{ for (brightness = 0; brightness (= 255; brightness += 3)

analog Write (11, brightness);

delay(30);

for (brightness=255; brightness);

{ analog Write (11, brightness);

delay (30);
}

3

Porogram No: 5

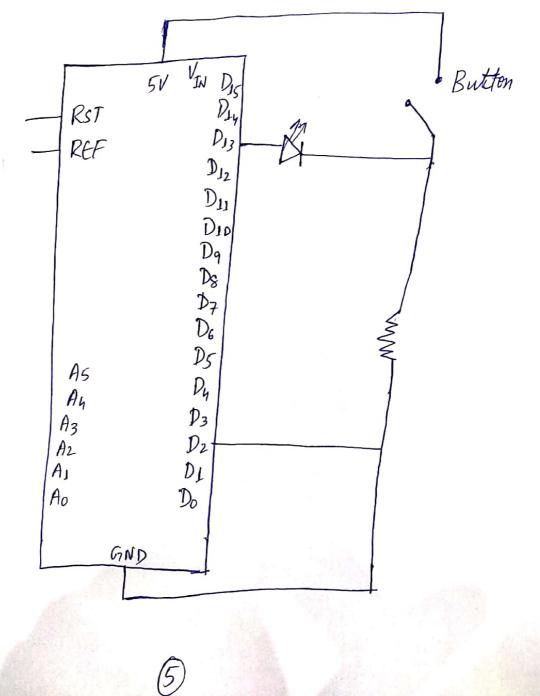
Sar Suram·V IBMIECSIUO

Porogram Title: LED Using Push Button

AIM: - Demonstrate to show ON/OFF of a LED using push button ( Digital Output)

Hardvare Requirement: ARDWIND Board, LED, Push Button, Resistor.

Circuit Diagram:



```
CODE:
             int buttons tate = 0;
               void setuf ()
                pinmode (13, OUTPUT);
pinmode (2, INPUT);
        void loop()
                     bultonstate = Ligital Read (2);
if (bulton state == HIGH)
                          digital Write (13, HIGH);
              else.
                            digital write (13, Low);
           3
```