Abhishek R

IBM 19CS400 Pege No.

Date 23/09/20

Program - UI

LED BITHK

Code:

int Led Pin = 9;

Void Setup()

{

Void Setup()

3
Void loop()

3

for (int fadevalue = D; fadevalue <= 255; fadevalue += 5)

s

analog write ( led Pin, fadevalue);

delay (30);

3

for (int fadevalue = 255; fadevalue >= 0; fadevalue -= 5)

f

analog write (led Pin, fadevalue);

delay (30);

}

-1- Advidue:

Abhishek.R
IBMI9CSYDD

Date 23/09/20

Program -2 Coder int brightness = 0; void setup() PinMode (9, OUTPUT); Void Loopl) for (brightness = 0; brightness L= 255; brightness +=5) analogusite(9, brightness); delay (30); Por (brightness = 255; brightness >= 0; brightness -= 5) analoguente (9. brightness); delay (30);

-2- Nahadid

AbhishekR 1BM19CSYDD Roge HC Date 23 / 09 / 20

Program-3 Traffic Light Controller

Cody

int Green = 2 i

int Yellow = 3;

int Red = 4;

int Delay-Green = 900; int Delay-Yellow = 700; int DELAY-RED = 900;

void Supl)

Pinmode ( Gleen, OUTPUT); Pinmode ( Yellow, OUTPUT);

Pinmode ( Red , OUTPUT );

void loop ()

red\_light();
delay (DELAY-RED);

Yellow\_light(); delay (Delay-Yellow);

green\_light(); delay (Delay-Green);

Void green-light ()

digitalwrite (Green, High); digitalwrite (Yellow, Low);

digital write [ Red, Low);

-3-

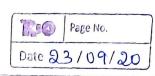
Middle

Abhishek-R Page No. 1BM19CS400 Date 23/09/20

void Yellow-light!) digital write (green, Low);
digital write (Yellow, High);
digital write (Red, Low); void red-light() digital write (yreen, Low);
digital write (yellow, low);
digital write (red, High);
}

-4-

## Abhishek.R 1BM19CS400



Povgram-4 Potentionales

Coder

int LED-PIN = 9;

Void Satupl)

Serial. begin (9600);

PinMode (LED-PIN, OUTPUT);

() goal biov

int analogvalue = analogked (AO);
int brightness = maplanalogvalue, 0,1023, 0,255);
analogwite (LED-PIN, brightness);
Serial. Print ("Analog: ");
Serial. Print (analogvalue);

Serial. Print (", Brightness:"); Serial. Println (brightness);

delay (100);

-5-

Abhishek.R Page No. 1BM19(5400 Date 23 /09 /20

Program-or Push button

Codet

buttonState = 2;

int ladpin = 13;

int buttonState = 0;

void Setupl)

Pin Mode ( D, INPUT);

PinMode (13, OUTPUT);

void loop ()

buttonstat = digital Read (2);

if (buttonstate == HIGH)

digital worte (13, HIGH).

digital write (13, Low);

delay (10);

-6-

Abhighet &