19CSE303 – EMBEDDED SYSTEMS

Lab Evaluation - 1
Arduino Simulator

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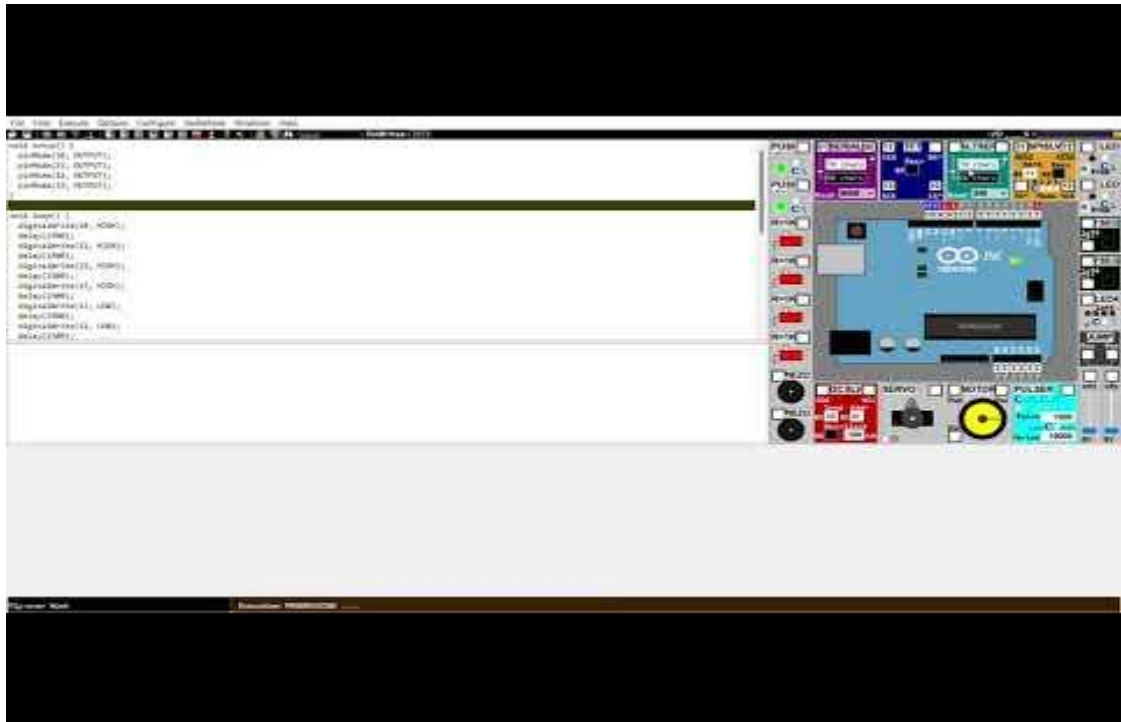
1. Pattern :
   Code :

```
void setup() {
pinMode(10, OUTPUT);
pinMode(11, OUTPUT);
pinMode(12, OUTPUT);
pinMode(13, OUTPUT);
}

void loop() {
digitalWrite(10, HIGH);
delay(1500);
digitalWrite(11, HIGH);
delay(1500);
digitalWrite(12, HIGH);
delay(1500);
digitalWrite(13, HIGH);
delay(1500);
digitalWrite(13, LOW);
delay(1500);
digitalWrite(12, LOW);
delay(1500);
digitalWrite(11, LOW);
delay(1500);
digitalWrite(10, LOW);
delay(1500);
}
```

Output :

2. Receive characters from serial input and do the following: If A is received, light up 2 LEDS and one LED if 'a' is received.

Code :

```
void setup()

{

Serial.begin(9600);
pinMode(13,OUTPUT);
pinMode(11,OUTPUT);
}

void loop()

{

char data = 0;

if(Serial.available()>0)
{
```

```
data = Serial.read();
if (data == 65)
{
digitalWrite(13, HIGH);
digitalWrite(11, HIGH);

}

if (data == 97)
{
digitalWrite(13,HIGH);
digitalWrite(11, LOW);
}

Serial.println("Input Value: ");

Serial.write(data);

}

}
```
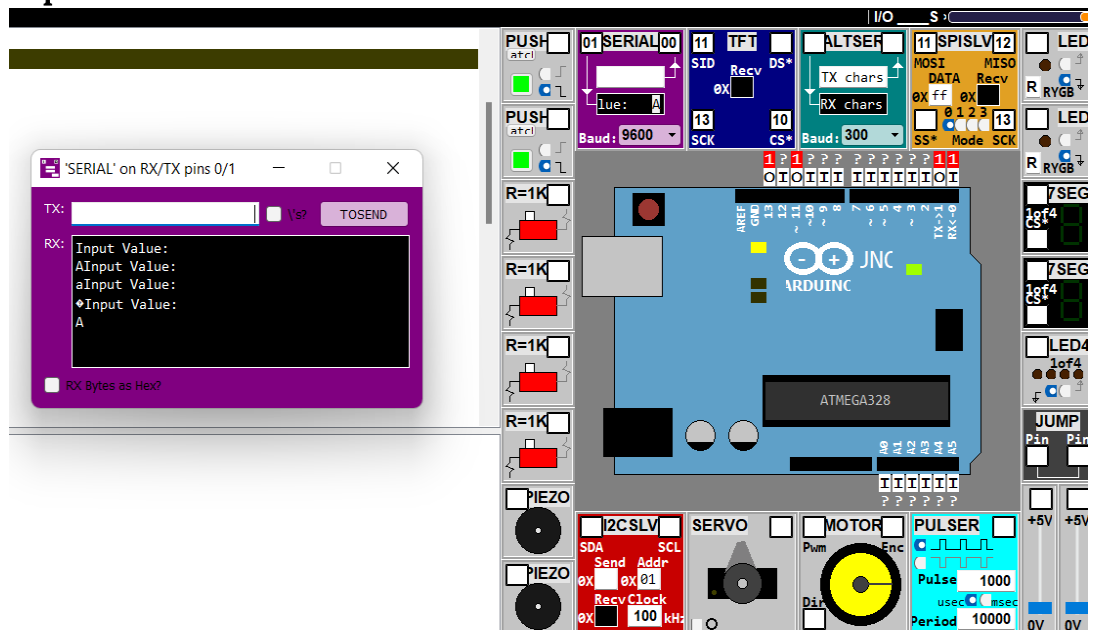
Output:

- **Input 'A' :**

- **Input 'a':**