

23-09-2020

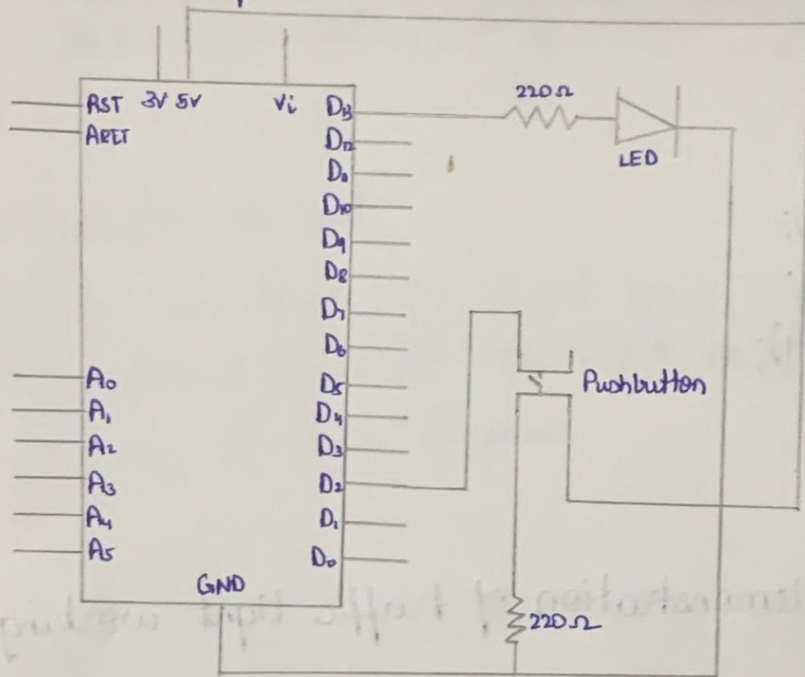
PROGRAM-3

Title: Pushbutton LED

Aim: To switching on the LED when the button is pressed.

Hardware Required: Arduino Board, Push button, Wires, Resistors, LED.

Circuit Diagram:



Code:

```
const int buttonPin = 2;
```

```
const int ledPin = 13;
```

```
int buttonState = 0;
```

```
void setuploop ()
```

```
{ buttonState = digitalRead(buttonPin);
```

```
  if (buttonState == HIGH)
```

```
  { digitalWrite(ledPin, HIGH);
```

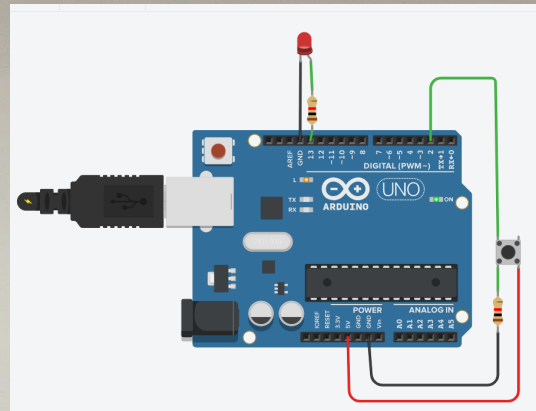
```
  }
```

```

else
{
    digitalWrite (ledPin, LOW);
}
}

void setup()
{
    pinMode (ledPin, OUTPUT);
    pinMode (buttonPin, INPUT);
}

```



Observation/Output:

We can see that the light gets on when the button is being pressed and the light gets switched off when the button is not being pressed.