Program no: 11

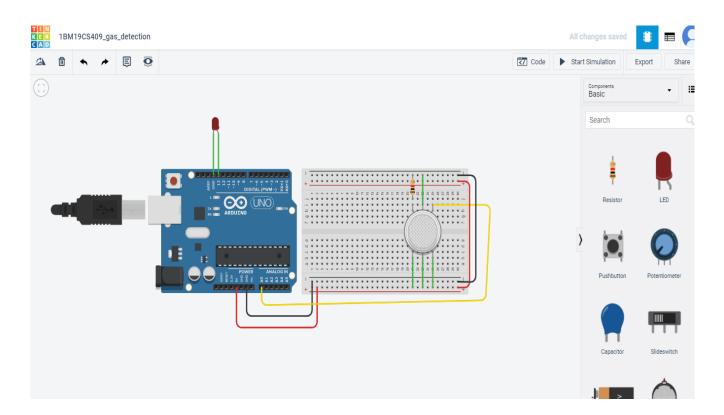
Program Title: Gas detector

Aim: Designing a circuit to glow LED when the gas is detected.

Hardware Required

- Arduino Board
- Wires
- Breadboard
- LED
- Gas sensor
- Resistor

Circuit Diagram:



Code:

	Sumalara IBMI9CS 409
	Program -11 Gas detection
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	of smoke = Ao;
	pid Setul ()
	Penmode (red Led, output);
	Sexid begin (9600);
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*	Sexial Printer (analog Sensor);
	if (analog Sent of > = 100)
	3
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	Sexial Printle ("Smoke DETECTED");
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	digitalwaite (xedled, L Sexial Pxintin ("No SM	OLE DETECTED")
)	
	delay (2000);	The Test
	2	1 2 2 12
	Pearl - Die	But by I !!
		9.15 100
		2
	Complete on the St.	always I I

```
int redLed = 13;
int smoke = A0;
void setup()
{
 pinMode(redLed, OUTPUT);
 Serial.begin(9600);
}
void loop()
 int analogSensor = analogRead(smoke);
 Serial.println(analogSensor);
 if(analogSensor >= 100)
  digitalWrite(redLed, HIGH);
  Serial.println("SMOKE DETECTED");
 }
  else
  {
   digitalWrite(redLed, LOW);
   Serial.println("NO\ SMOKE\ DETECTED");
  }
   delay(2000);
}
```

Observation / Output:

