

---

# Fire Alarm Circuit Project Report

---

How to make a Simple Fire Alarm Circuit? A science project: Fire Alarm Fire Alarm Project using Thermistor and IC 555 FIRE ALARM PROJECT (USING IR TRANSMITTER LED) Fire Alarm circuit on Breadboard | Thermistor \u0026 Transistor How to make Fire Alarm Circuit Using LM358 Security Alarm with LDR | LDR Latch Circuit Fire Sensor Circuit using BC547 Transistors | Simple Electronics Projects Buzzer Beep sound effect, Science project with Transistor IR Proximity Sensor / Obstacle Detector circuit on Breadboard | LM358 Op-Amp projects how to make a simple FIRE ALARM using thermistor Inspire Award Project || Automatic Fire Extinguisher without Arduino || SKR Electronics Lab Simple Heat Alarm Circuit at Low Cost How to Make Fire Alarm Project At Home How to make a Simple Fire Detector Alarm Circuit From Fire Alarms to Real Estate A Journey of Investment Fire alarm / detector with arduino PPT How to make Fire Detector Alarm at home \u2713 Very Simple BC547 project Intro to Fire Alarm IDC \u0026 SLC Circuits How Fire Alarm Systems Work | Point Monitor Corporation fire Alarm ( I.R photo diode based fire detector circuit) conventional fire alarm system wiring diagram/connection Easy Science Project // Fire Alarm Project // Fire Detector What's inside a fire alarm device Fire Alarm System Project | Simple Fire Alarm | Fire Alarm School Project| Fire Alarm Sound Project| Simple Fire Alarm Circuit on Breadboard with diagramm\ufe0f Simple Fire Alarm Circuit Buzzer Projects | Buzzer 5v | Simple Door Bell Alarm | Mini Buzzer Project | Simple Alarm Circuit | Fire Alarm Circuit Diagram | Fire Alarm | IC 555 | Electronics Projects

How to make a Simple Fire Alarm Circuit? Two Simple Fire Alarm Circuit Simple Fire Alarm Circuit documentary How to Make Fire Alarm Circuit **Fire Alarm Circuit using Thermistor \u0026 LM358 - Electronics Projects** **How to make fire Alarm Electronics Printed Circuit Board||Free PCB Layout||fire detection system** How To make A |Simple Fire Alarm Circuit Using Transistor|.

---

FIRE ALARM SYSTEM | FDAS | EIM NC II | COMPLETE GUIDE

---

SolarWinds Attack, AIR-FI Technique, \u0026 Zodiac Cypher Decoded - PSW #678

**What is a Fire Alarm System?** *Fire Detection and Alarm Mini Project* **Fire Alarm Circuit using 555 Timer IC | Fire Detector | DIY Project** How To Make A Mobile Phone Detector simple clap control home-automation.....#clapswitch Tsop1738 long-range Proximity sensor | ir security alarm | LCSC ELECTRONICS A simple guide to electronic components. Fire Alarm Circuit Diagram | Fire Alarm | IC 555 | Electronics Projects **How to make a Smoke Detector Fire Alarm How to Make Fingerprint Door Lock | Arduino Project** How to Make a Fire Detector with Alarm at Home - DIY How to Make an IR Proximity Sensor | Touchless Door Bell How to make super sensitive fire detector,super easy fire sensor DIY Smoke Detector using MQ2 Module | Electronic project For Students How to make Fire Detector Alarm at home \u2713 Very Simple BC547 project **(DIY) Simple Fire Alarm Circuit at Low Cost | BC547 |**

**WowElectric** 31 - Metering Fire Alarm Circuits - Introduction to Fire Alarms **Superb Sensitive Fire Alarm Circuit | Fire Detector** How does a Fire Alarm Electronic Circuit Works by Raj Kumar Thenua **Smoke Alarm / Detector Code Requirements \u0026 Principles** **How To Make Sensitive Fire Alarm Circuit || Fire Detector**

Simple Fire Alarm Circuit - Projects Ideas and Downloads  
Fire Alarm Circuit - Do It Yourself Electronics Projects  
(PDF) Design & Implementation of Fire Alarm Circuit  
Fire Alarm Circuit Diagram | Fire Alarm | IC 555 ...  
Fire Alarm Using Thermistor | Full Circuit Diagram Available  
GSM based SMS Alert Fire Alarm System using Arduino  
Fire Detection and Alarm System Basics  
FIRE ALARM PHYSICS PROJECT CBSE CLASS 12  
Fire Alarm Using Thermistor - Electronics Project  
Fire Alarm Circuit Project Report  
Low Cost Fire Alarm Circuit-Working,Circuit Scematic  
10+ Alarm System Report Form Templates in PDF | DOC | Free ...  
A PROJECT REPORT ON Home Security Alarm System Using Arduino  
Steps to Build Simple Fire Alarm Circuit using Thermistor  
Simple Fire Alarm Circuit Using Thermistor, Germanium ...  
project report on fire alarm - SlideShare  
Fire Alarm Circuit Diagram using Thermistor and 555 Timer IC  
project report fire alarm | Diode | Manufactured Goods  
Project Report On Rain Alarm Pdf 22 - westrorede

*Fire Alarm  
Circuit Project Report* **OMB No.  
8951663098754  
edited by**

## **PALMER WESTON**

*How to make a Simple  
Fire Alarm Circuit? Two  
Simple Fire Alarm Circuit  
Simple Fire Alarm Circuit  
documentary How to  
Make Fire Alarm Circuit  
Fire Alarm Circuit using  
Thermistor \u0026 LM358  
- Electronics Projects* **How  
to make fire Alarm  
Electronics Printed Circuit  
Board||Free PCB  
Layout||fire detection  
system** *How To make A  
|Simple Fire Alarm Circuit  
Using Transistor|.*

*FIRE ALARM SYSTEM |  
FDAS | EIM NC II |  
COMPLETE GUIDE*

*SolarWinds Attack, AIR-FI  
Technique, \u0026 Zodiac  
Cypher Decoded - PSW  
#678* **What is a Fire  
Alarm System? Fire  
Detection and Alarm Mini  
Project** **Fire Alarm  
Circuit using 555 Timer  
IC | Fire Detector | DIY  
Project** *How To Make A  
Mobile Phone Detector  
simple clap control home-  
automation.....#clapswitc  
h Tsop1738 long-range  
Proximity sensor | ir  
security alarm | LCSC  
ELECTRONICS A simple*

*guide to electronic  
components. Fire Alarm  
Circuit Diagram | Fire  
Alarm | IC 555 |  
Electronics Projects* **How  
to make a Smoke  
Detector Fire Alarm  
How to Make  
Fingerprint Door Lock |  
Arduino Project** *How to  
Make a Fire Detector with  
Alarm at Home - DIY How  
to Make an IR Proximity  
Sensor | Touchless Door  
Bell How to make super  
sensitive fire  
detector,super easy fire  
sensor* *DIY Smoke  
Detector using MQ2  
Module | Electronic  
project For Students* *How  
to make Fire Detector*

*Alarm at home* ☐ *Very Simple BC547 project (DIY) Simple Fire Alarm Circuit at Low Cost | BC547 | WowElectric 31 - Metering Fire Alarm Circuits - Introduction to Fire Alarms Superb Sensitive Fire Alarm Circuit | Fire Detector How does a Fire Alarm Electronic Circuit Works by Raj Kumar Thenua Smoke Alarm / Detector Code Requirements \u0026 Principles How To Make Sensitive Fire Alarm Circuit || Fire Detector How to make a Simple Fire Alarm Circuit? Two Simple Fire Alarm Circuit Simple Fire Alarm Circuit documentary How to Make Fire Alarm Circuit Fire Alarm Circuit using Thermistor \u0026 LM358 - Electronics Projects How to make fire Alarm Electronics Printed Circuit Board||Free PCB Layout||fire detection system How To make A |Simple Fire Alarm Circuit Using Transistor|.*

FIRE ALARM SYSTEM |  
FDAS | EIM NC II |  
COMPLETE GUIDE

SolarWinds Attack, AIR-FI  
Technique, \u0026 Zodiac  
Cypher Decoded - PSW  
#678 **What is a Fire  
Alarm System?** *Fire  
Detection and Alarm Mini*

*Project Fire Alarm Circuit using 555 Timer IC | Fire Detector | DIY Project* How To Make A Mobile Phone Detector simple clap control home-automation.....#clapswitc h Tsop1738 long-range Proximity sensor | if security alarm | LCSC ELECTRONICS A simple guide to electronic components. *Fire Alarm Circuit Diagram | Fire Alarm | IC 555 | Electronics Projects How to make a Smoke Detector Fire Alarm How to Make Fingerprint Door Lock | Arduino Project* How to Make a Fire Detector with Alarm at Home - DIY How to Make an IR Proximity Sensor | Touchless Door Bell How to make super sensitive fire detector, super easy fire sensor *DIY Smoke Detector using MQ2 Module | Electronic project For Students* How to make Fire Detector Alarm at home ☐ *Very Simple BC547 project (DIY) Simple Fire Alarm Circuit at Low Cost | BC547 | WowElectric 31 - Metering Fire Alarm Circuits - Introduction to Fire Alarms Superb Sensitive Fire Alarm Circuit | Fire Detector* How does a Fire Alarm Electronic Circuit Works by Raj Kumar Thenua

**Smoke Alarm / Detector Code Requirements** \u0026 Principles How To Make Sensitive Fire Alarm Circuit || Fire Detector Fire Alarm Circuit Project Report The fire alarm circuit here is designed with the principle of working of an astable multivibrator using IC 555. An astable multivibrator is a circuit which generates continuous pulses at the output terminal for the designed frequency. The generated frequency produces sound when it is connected to a loudspeaker. project report fire alarm | Diode | Manufactured Goods The project report on "Design and Implementation of Fire Alarm Circuit" submitted by Asok Bala, ID: ECE-070200074 and Md. Najmul Hossain, ID: ECE-070300082, to the department of (PDF) Design & Implementation of Fire Alarm Circuit Electronic Fire Alarm 137 Fig. 1: Thermistor base fire alarm circuit. Timer IC NE555 (IC1) is wired as an astable multivibrator oscillating in audio frequency band. Switching transistors Q1 and Q2 drive multivibrator IC1. The output of IC1 is connected to NPN

transistor Q3, which drives the loudspeaker (SPKR) to generate sound. project report on fire alarm - SlideShare

**Circuit 1 Simple Fire Alarm Circuit** This is a very simple alarm circuit using Thermistor, LM358 Operational - Amplifier and a Buzzer. Circuit Diagram. The circuit diagram of this simple Fire Alarm Project is shown in the following image. Components Required. 1 x 10 K Thermistor; 1 x LM358 Operational Amplifier (Op - Amp) Simple Fire Alarm Circuit Using Thermistor, Germanium ... This project covers a simple fire alarm circuit using thermistor and 555 timer IC. Here thermistor is used as a fire detector. Thermistor is temperature sensitive resistor, whose resistance changes according to the temperature, its resistance decreases with the increase in temperature and vice versa. Fire Alarm Circuit Diagram using Thermistor and 555 Timer IC Simple Fire Alarm Circuit designed by using 10K NTC (Negative Temperature Coefficient) Thermistor and timer IC 555, this circuit will produce buzzer sound when the temperature near thermistor raises

beyond threshold, and this threshold limit can be varied by using variable resistor. This simple fire alarm circuit can be used as a indicator or warning circuit for excessive fire and temperature, you can connect relay at the output to connect or disconnect target device. Fire Alarm Circuit - Do It Yourself Electronics Projects In this fire alarm circuit, a thermistor works as the heat sensor. When temperature increases, its resistance decreases, and vice versa. At normal temperature, the resistance of the thermistor (TH1) is approximately 10 kilo-ohms, which reduces to a few ohms as the temperature increases beyond 100°C. This fire alarm using thermistor circuit involves readily available components and can be easily constructed on any general purpose PCB. Fire Alarm Using Thermistor | Full Circuit Diagram Available Fire alarm using thermistor circuit works on wide range of input power supply voltage i.e. 6v to 12V. PARTS LIST. Resistors (all ¼-watt, ± 5% Carbon) VR 1 = 10 Kohms Variable Resistor for changing the sensitivity of the circuit. R 3, R 7, R 8 = 470 Ω. R 2 =

33 K Ω. R 4 = 560 Ω. R 5 = 47 K Ω Fire Alarm Using Thermistor - Electronics Project Fire alarm sounders can be set to certain frequencies and different tones including low, medium and high, depending on the country and manufacturer of the device. WE WILL BE STUDYING A THERMISTOR BASED FIRE ALARM WHERE WE WILL USE FIRE SWITCH TO CONTROL THE CIRCUIT. 7. PAGE 6 COMPONENTS OF FIRE ALARM CIRCUIT 1. Battery 2. PCB Board 3. FIRE ALARM PHYSICS PROJECT CBSE CLASS 12 Fire Alarm Circuit Classes. 2007 NFPA 72, 6.4.2.1 Class. Initiating device circuits, notification appliance circuits, and signaling line circuits shall be permitted to be designated as either Class A or Class B, depending on their performance during nonsimultaneous single circuit fault conditions as specified by the following: (1) Initiating device circuits and signaling line circuits that transmit an alarm or supervisory signal, or notification appliance circuits that allow all connected ... Fire Detection and Alarm System Basics The fire alarm project is designed for developing a temperature control

system using thermistor. This simple fire alarm circuit using thermistor can be developed on your own over a solderless breadboard by following simple steps. Hence, it can be considered as a fire alarm mini project. Steps to Build Simple Fire Alarm Circuit using Thermistor Here is a simple fire alarm circuit based on a LDR and lamp pair for sensing the fire. The alarm works by sensing the smoke produced during fire. The circuit produces an audible alarm when the fire breaks out with smoke. ... Final Year Project Report; Microcontroller based mini projects; Simple Fire Alarm Circuit - Projects Ideas and Downloads In this article, we are going to build a Fire Alarm System using Arduino, LM35 Temperature Sensor and GSM Module. The objectives of this fire detector using arduino is to sense the surroundings for occurrence of fire with help of LM35 temperature sensor, and send 3 SMS alerts to two mobile numbers stored inside the arduino program if fire is detected (using GSM Module). GSM based SMS Alert Fire Alarm System using Arduino The project involves the use of

Arduino, motion sensor, buzzer, LCD display and a simple program. The sensor detect any motion in its permissible range and triggers the alarm. It will also send the signal to Arduino which processes the signal and set off the alarm along with a PROJECT REPORT ON Home Security Alarm System Using Arduino #CircuitsDIY Find Full Project Description & All Useful Material Including • Circuit Diagram / Schematic • Hardware / Component List • Codes / Algorithm • Datashe... Fire Alarm Circuit Diagram | Fire Alarm | IC 555 ... sir the circuit u provide for fire alarm is not working according to the circuit. actually I am a student and working on this fire alarm project. I joined all the connections according to ur circuit but it is not working plz help me... at place of Q3(AC128) i used another transistor like the same of this. plz sir help me to complete my project .. Low Cost Fire Alarm Circuit- Working, Circuit Scematic RAIN ALARM PROJECT REPORT speed 4,7.. Electronics Projects and Circuit made Easy. Rain Alarm Project Rain Water Detector Circuit Applications Read completely about Rain

alarm project circuit and applications in this post.. Electronics Hub.. .. 1 x 22 F Capacitor (Polarized) 2 x 100 F Capacitor . Fire Alarm Plan Review Requirements - City of ... Project Report On Rain Alarm Pdf 22 - westrorede The fire alarm system Audit report form template is used to observe, examine, test and assess all the fire alarm system devices you have by collecting company details with system information, inspection details, etc. Have a look at the alarm system report form template s provided down below and choose the one that best fits your purpose. 10+ Alarm System Report Form Templates in PDF | DOC | Free ... Fire Alarm Circuit is one of the simple and cool projects in electronics it detects the fire using a thermistor and activates the alarming sound with buzzer. Fire Alarms has important practical application in industries where it is necessary to detect fire on right time and prevent damages to people or property. Fire Alarm Circuit Classes. 2007 NFPA 72, 6.4.2.1 Class. Initiating device circuits, notification appliance circuits, and signaling line circuits shall



be permitted to be designated as either Class A or Class B, depending on their performance during nonsimultaneous single circuit fault conditions as specified by the following: (1) Initiating device circuits and signaling line circuits that transmit an alarm or supervisory signal, or notification appliance circuits that allow all connected ...

### **SIMPLE FIRE ALARM CIRCUIT - PROJECTS IDEAS AND DOWNLOADS**

How to make a Simple Fire Alarm Circuit? Two Simple Fire Alarm Circuit Simple Fire Alarm Circuit documentary *How to Make Fire Alarm Circuit* [Fire Alarm Circuit using Thermistor \u0026amp; LM358 - Electronics Projects](#) [How to make fire Alarm Electronics Printed Circuit Board||Free PCB Layout||fire detection system](#) *How To make A |Simple Fire Alarm Circuit Using Transistor|*.

FIRE ALARM SYSTEM | FDAS | EIM NC II | COMPLETE GUIDE

SolarWinds Attack, AIR-FI Technique, \u0026amp; Zodiac Cypher Decoded - PSW #678 **What is a Fire**

**Alarm System?** *Fire Detection and Alarm Mini Project* **Fire Alarm Circuit using 555 Timer IC | Fire Detector | DIY Project** [How To Make A Mobile Phone Detector simple clap control home-automation.....#clapswitch Tsop1738 long range Proximity sensor | ir security alarm | LCSC ELECTRONICS A simple guide to electronic components.](#) [Fire Alarm Circuit Diagram | Fire Alarm | IC 555 | Electronics Projects](#) **How to make a Smoke Detector Fire Alarm** **How to Make Fingerprint Door Lock | Arduino Project** [How to Make a Fire Detector with Alarm at Home - DIY](#) [How to Make an IR Proximity Sensor | Touchless Door Bell](#) [How to make super sensitive fire detector,super easy fire sensor](#) [DIY Smoke Detector using MQ2 Module | Electronic project For Students](#) [How to make Fire Detector Alarm at home](#) [Very Simple BC547 project \(DIY\) Simple Fire Alarm Circuit at Low Cost | BC547 | WowElectric](#) [31 - Metering Fire Alarm Circuits - Introduction to Fire Alarms](#) [Superb Sensitive Fire Alarm Circuit | Fire Detector](#) [How does a Fire Alarm](#)

[Electronic Circuit Works by Raj Kumar Thenua](#) [Smoke Alarm / Detector Code Requirements \u0026amp; Principles](#) [How To Make Sensitive Fire Alarm Circuit || Fire Detector](#) [Fire Alarm Circuit - Do It Yourself Electronics Projects](#)

The project report on "Design and Implementation of Fire Alarm Circuit" submitted by Asok Bala, ID: ECE-070200074 and Md. Najmul Hossain, ID: ECE-070300082, to the department of *(PDF) Design & Implementation of Fire Alarm Circuit* RAIN ALARM PROJECT REPORT speed 4,7.. Electronics Projects and Circuit made Easy.Rain Alarm Project Rain Water Detector Circuit ApplicationsRead completely about Rain alarm project circuit and applications in this post.. Electronics Hub.. .. 1 x 22 F Capacitor (Polarized) 2 x 100 F Capacitor .Fire Alarm Plan Review Requirements - City of ...

### **FIRE ALARM CIRCUIT DIAGRAM | FIRE ALARM | IC 555 ...**

Circuit 1 Simple Fire Alarm Circuit This is a very simple alarm circuit using Thermistor, LM358

Operational – Amplifier and a Buzzer. Circuit Diagram. The circuit diagram of this simple Fire Alarm Project is shown in the following image. Components Required. 1 x 10 K Thermistor; 1 x LM358 Operational Amplifier (Op – Amp)

*Fire Alarm Using Thermistor | Full Circuit Diagram Available*

In this article, we are going to build a Fire Alarm System using Arduino, LM35 Temperature Sensor and GSM Module. The objectives of this fire detector using arduino is to sense the surroundings for occurrence of fire with help of LM35 temperature sensor, and send 3 SMS alerts to two mobile numbers stored inside the arduino program if fire is detected (using GSM Module).

*GSM based SMS Alert Fire Alarm System using Arduino*

In this fire alarm circuit, a thermistor works as the heat sensor. When temperature increases, its resistance decreases, and vice versa. At normal temperature, the resistance of the thermistor (TH1) is approximately 10 kilo-ohms, which reduces to a few ohms as the temperature increases

beyond 100°C. This fire alarm using thermistor circuit involves readily available components and can be easily constructed on any general purpose PCB.

*Fire Detection and Alarm System Basics*

This project covers a simple fire alarm circuit using thermistor and 555 timer IC. Here thermistor is used as a fire detector. Thermistor is temperature sensitive resistor, whose resistance changes according to the temperature, its resistance decreases with the increase in temperature and vice versa.

FIRE ALARM PHYSICS PROJECT CBSE CLASS 12

Fire alarm sounders can be set to certain frequencies and different tones including low, medium and high, depending on the country and manufacturer of the device. WE WILL BE STUDYING A THERMISTOR BASED FIRE ALARM WHERE WE WILL USE FIRE SWITCH TO CONTROL THE CIRCUIT. 7. PAGE 6 COMPONENTS OF FIRE ALARM CIRCUIT 1. Battery 2. PCB Board 3.

Fire Alarm Using Thermistor - Electronics Project

The fire alarm project is designed for developing a

temperature control system using thermistor. This simple fire alarm circuit using thermistor can be developed on your own over a solderless breadboard by following simple steps. Hence, it can be considered as a fire alarm mini project.

*Fire Alarm Circuit Project Report*

Fire Alarm Circuit is one of the simple and cool projects in electronics it detects the fire using a thermistor and activates the alarming sound with buzzer. Fire Alarms has important practical application in industries where it is necessary to detect fire on right time and prevent damages to people or property.

**LOW COST FIRE ALARM CIRCUIT- WORKING, CIRCUIT SCHEMATIC**

The fire alarm circuit here is designed with the principle of working of an astable multivibrator using IC 555. An astable multivibrator is a circuit which generates continuous pulses at the output terminal for the designed frequency. The generated frequency produces sound when it is connected to a loudspeaker.

### [10+ Alarm System Report Form Templates in PDF | DOC | Free ...](#)

sir the circuit u provide for fire alarm is not working according to the circuit. actually I am a student and working on this fire alarm project. I joined all the connections according to ur circuit but it is not working plz help me... at place of Q3(AC128)i used another transistor like the same of this. plz sir help me to complete my project ..

*A PROJECT REPORT ON Home Security Alarm System Using Arduino*  
#CircuitsDIYFind Full Project Description & All Useful Material Including • Circuit Diagram / Schematic • Hardware / Component List • Codes / Algorithm • Datashe...  
*Steps to Build Simple Fire Alarm Circuit using Thermistor*

### **SIMPLE FIRE ALARM CIRCUIT USING THERMISTOR, GERMANIUM ...**

The fire alarm system Audit report form template is used to observe, examine, test and assess all the fire alarm system devices you have by collecting

company details with system information, inspection details, etc. Have a look at the alarm system report form template s provided down below and choose the one that best fits your purpose.

### **PROJECT REPORT ON FIRE ALARM - SLIDESHARE**

Here is a simple fire alarm circuit based on a LDR and lamp pair for sensing the fire. The alarm works by sensing the smoke produced during fire. The circuit produces an audible alarm when the fire breaks out with smoke. ... Final Year Project Report; Microcontroller based mini projects;

### **FIRE ALARM CIRCUIT DIAGRAM USING THERMISTOR AND 555 TIMER IC**

Simple Fire Alarm Circuit designed by using 10K NTC (Negative Temperature Coefficient) Thermistor and timer IC 555, this circuit will produce buzzer sound when the temperature near thermistor raises beyond threshold, and this threshold limit can be

varied by using variable resistor. This simple fire alarm circuit can be used as a indicator or warning circuit for excessive fire and temperature, you can connect relay at the output to connect or disconnect target device. [project report fire alarm | Diode | Manufactured Goods](#)

Electronic Fire Alarm 137  
Fig. 1: Thermistor base fire alarm circuit. Timer IC NE555 (IC1) is wired as an astable multivibrator oscillating in audio frequency band. Switching transistors Q1 and Q2 drive multivibrator IC1. The output of IC1 is connected to NPN transistor Q3, which drives the loudspeaker (SPKR) to generate sound.

### **PROJECT REPORT ON RAIN ALARM Pdf 22 - WESTROREDE**

The project involves the use of Arduino, motion sensor, buzzer, LCD display and a simple program. The sensor detect any motion in its permissible range and triggers the alarm. It will also send the signal to Arduino which processes the signal and set off the alarm along with

Related with Fire Alarm Circuit Project Report:

[© Fire Alarm Circuit Project Report Right Triangle Trig Review Answer Key](#)



[© Fire Alarm Circuit Project Report Rica Practice Test Subtest 1](#)

[© Fire Alarm Circuit Project Report Rhetorical Analysis Essay Outline](#)