

# Bitcoin Alert System using IoT

## DISCLAIMER:

THIS PROJECT DOES NOT REQUIRE YOU TO HAVE A BITCOIN WALLET AND/OR PURCHASE/SELL BITCOINS. ALL THE EXTERNAL APIS USED IN THIS PROJECT ARE PUBLIC AND IT IS A PURELY EDUCATIONAL PROJECT.

## Introduction

### What is Bitcoin?

A software developer going by the name of Satoshi Nakamoto proposed bitcoin in 2008, as an electronic payment system based on mathematical proof. The idea was to produce a means of exchange, independent of any central authority, that could be transferred electronically in a secure, verifiable and immutable way.

Since its launch in 2009, Bitcoin has been a controversial concept. Some people accept it as an anonymous currency, which protects their privacy and also provides a unified platform for all kinds of transactions online.

Whereas there are others who shun it saying that it's the currency of the black market.

But, the recent upshoot of the Bitcoin price has made everyone want to invest in it. There are stories about people who paid 25,000 Bitcoins for a pizza back in 2009-10 and are now regretting that decision. Whereas there are others who are running mining rigs and farms and making millions. But, it is not necessary that the Bitcoin price always stays high. Sometimes it rises and sometimes it falls so why not build a system that tells us when it rises and when it falls.

### What does this project do?

Using this project, you can alert yourself when the Bitcoin price is right to sell. The system checks the current price of the Bitcoin currency every 5 seconds and checks if it is greater than our defined selling price. If the market price(*current price*) is greater, then it will tell the Bolt to sound an alert via the connected buzzer.

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**Q. I am not able to sign into the Twilio account, it is like I have to solve the CAPTCHA in order to sign in? What is meant by CAPTCHA?**

Here is a video which will explain to you what is a CAPTCHA: <https://www.youtube.com/watch?v=MWu2UiLLJI8>

**Q. How long does the temp\_sms.py code send an sms? Does it send sms only once, or does it send sms everytime the temperature goes beyond bounds?**

The code will send you an sms everytime the temperature goes beyond its bounds.

However, if you execute the command

```
sudo python temp_sms.py
```

You will need to stay logged into the digital Ocean droplet for the code to keep monitoring the temperature and send you an sms.

[see more \(\)](#)

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**Q. When I execute temp\_email it is showing unexpected indent error. How do I fix this?**

In python, the leading whitespace (spaces and tabs) at the beginning of a logical line is used to compute the indentation level of the line, which in turn is used to determine the grouping of statements.

The levels number of white spaces is known as an indentation level.

If you are facing unexpected indent error, it probably means that the white spaces before and after a logical grouping of instructions is different without having any function declaration or any kind of

[see more \(\)](#)

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**Q. I am getting an indentation error. How do I solve it?**

This means that you have not given proper indentation i.e. spaces before the start of each line of code. Do check the code given as part of the tutorial carefully and make suitable changes. I suggest you read the course content again to be sure that there are no errors.

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**Q. If I have multiple input-output devices how are they to be arranged? in series or parallel?**

The question of using multiple input-output devices in series or in parallel only comes in if you want to sense or control these devices using a single pin of the Bolt module.

It is not recommended that you try to sense or control multiple devices using a single pin of the Bolt unit.

Using multiple input-output devices with a single pin in the right manner is a skill-intensive task, where the method depends on the devices used and desired system behaviour.

[see more \(\)](#)

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[View more](#)

Ask your doubts to the instructor personally if they are not already answered on forum.

Type what you want to ask the instructor



**ASK THE INSTRUCTOR**