Algorithem

For stop corona robot

The technique used :

Radio Frequency Identification (RFID) : Devices use radio frequency waves to communicate

* LF
* HF
* UHF

RFID Applications

* Access control
* Asset tracking
* Parking management
* Patient ID management
* Inventory management

The principle of its work :

A [RFID reader](https://components101.com/modules/em18-rfid-reader-module) stays powered on all the time and is normally powered from an external power source. So when it is ON, the oscillator in it generates a signal with a desired frequency but as the signal strength will be very less (which may lead to fading off the signal if it is transmitted directly) it has to be amplified which can be done using an [amplifier](https://components101.com/tags/amplifier) circuit, inorder to propogate the signal to a longer distance we need to modulate the signal which is done by a modulator. With all these improvements the signal is now ready to be transmitted which can be done by an antenna which converts the electrical signal into a electromagnetic signal.

The RFID reader signals are everywhere with it’s promity to detect a tag. When a RFID tag comes in the proxmity of the RFID reader the tag detects the readers signal through a coil present in it which converts the received RF signal into a electrical signal. This converted signal alone is sufficient to power up the microchip present in the tag. Once the microchip gets powered up, its function is to send the data (unique ID) which it is stored in it. The same way the signal came in, it is sent out through the same coil into the air.

As discussed earlier the RFID reader also has a transceiver in it. When the signal comes back from the tag through the antenna of RFID reader it is fed to the demodulator and then decoded by a decoder where the original data can be obtained and then further processed by a [microcontroller](https://components101.com/microcontrollers) or a microprocessor to perform a specific task.

Note that the above explanation is for a passive RFID tag. In case of an active RFID tag it detects the signal from the reader only to trigger the circuit and make the tag ready to send the data to the reader, since active tags have built-in power source.

How we going to use RFID :

* Their will be a Barcode for all Attendees .
* The sensor will read their body temperature.
* The robot will move periodically between attendees the sensor will measure the distances between the barcodes and if the distance is illegal will send a warning message for devices that handle the barcodes and for the administrator .
* I recomand to write the code using Python programming language because the conditions are not complicated .