**Bitcoin Price Alert Project:**

**Summary:-**

1)Developed a python script which on execution fetches Bitcoin prices from Coincapmarket api and triggers notification containing price data of bitcoin in telegram and when price limit crosses a particular value notification is sent with bitcoin price and message to buy or sell Bitcoin,

2)first, visited coincapmarket website generated api key. With the help of documentation and code for fetching the Bitcoin data from coincapmarket.

3)second created an IFTTT account and created an applet for displaying the price notification to telegram app with Event name as “Bitcoin\_Tracker” and formatted as per guidance,

4)created another applet for sending emergency notification to mobile app with the price and message to buy or sell the bitcoin and on click notification it is directed to coincapmarket Bitcoin page to buy or sell the Bitcoin.

5)In python script the Bitcoin price data is fetched in JSON file format,

6)Using for loop, iterating through data and fetching the price values and imported data and time, stored the price value with current date and time in the dictionary format in an array.

7)Using recursion sorting algorithm the function is executed for 5 times and each time with time interval of few minutes, because the Bitcoin price to get updated with current date and time in the array

8) separated the each array values according to dictionary key values, and are stored and are formatted according to the parameters of the IFTTT services messaging, when data in array reaches length of 5, an instance is triggered and a notification is triggered to telegram app containing the price data from coincapmarket of the latest bitcoin price.

9)And an another condition is also checked and executed when Bitcoin price exceeds a particular value and when it crosses another rich notification from IFTTT services is triggered containing price data and message either to buy or sell the Bitcoin in coincapmarket.

10) All the data are formatted and are sent to either mobile as emergency notification or as a chat in telegram containing all the price data with latest updates.