

EXPERIMENT NUMBER-1.2

NAME OF EXPERIMENT: Design a cloud based weather monitoring system using IOT platform and relevant sensors.

NAME	UID	SECTION/GROUP
SUJOY ROY	22BCS12022	115/B
PARVEENKUMAR	22BCS15865	115/B
DEEPAK KUMAR SINGH	22BCS12849	115/B
ALOK KUMAR YADAV	22BCS13070	115/B
DEEPANSHU	22BCS15133	115/B

AIM OF THE PRACTICAL

TOOLS USED:

Basic code and command description

Esp32: It is a series of low cost lowpower system on a chipmicrocontroller with integrated wifi and dual mode bluetooth. Can provide wifi and bluetoot hand functionality through it SDIO/SPIorI2C/UARIinterface.

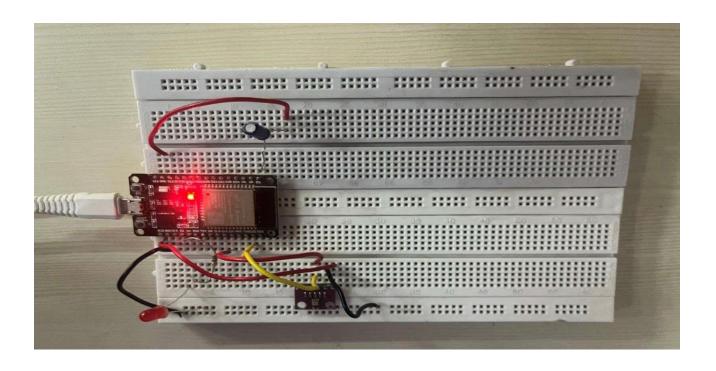
<u>BMP 280</u>: It is a digital pressure sensor, which gives temperature in degrees centigrade and pressure in pa. The output are digital because pressure changes with altitude, with great precision, low energy consuption and an ultra compact format.

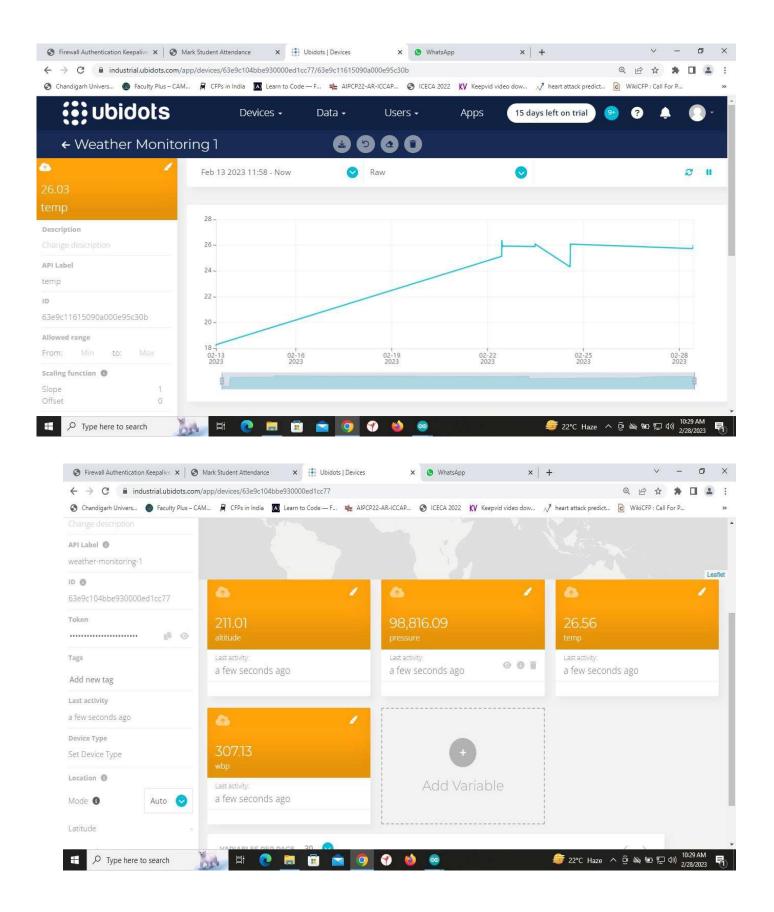
<u>UBIDOTS</u>: It is a virtual representation of a data source or simply, an asset taking sensor data and transmitting said data through a connection protocol to ubidots cloud.

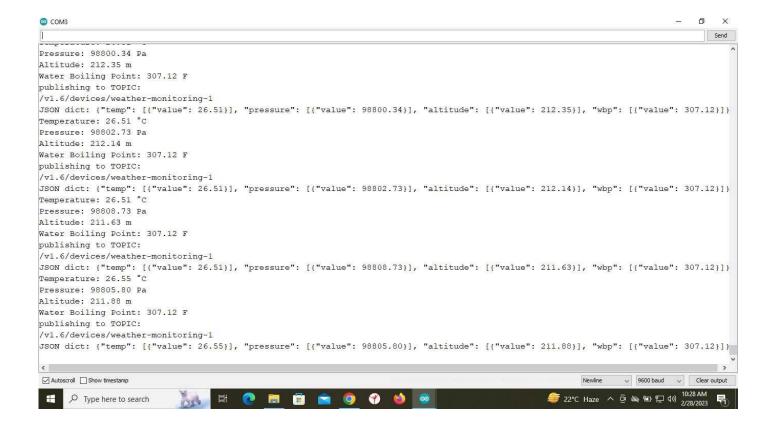
FLOWCHART-



PROGRAM CODE-







Result and summary-

EVALUATION COLUMN(To be filled by Concerned faculty only)

Sr.No.	Parameters	Maximum Marks	Marks Obtained
1.	WorksheetCompletion	10	
2.	Viva	8	
3.	Conduct	12	
	TotalMarks	30	