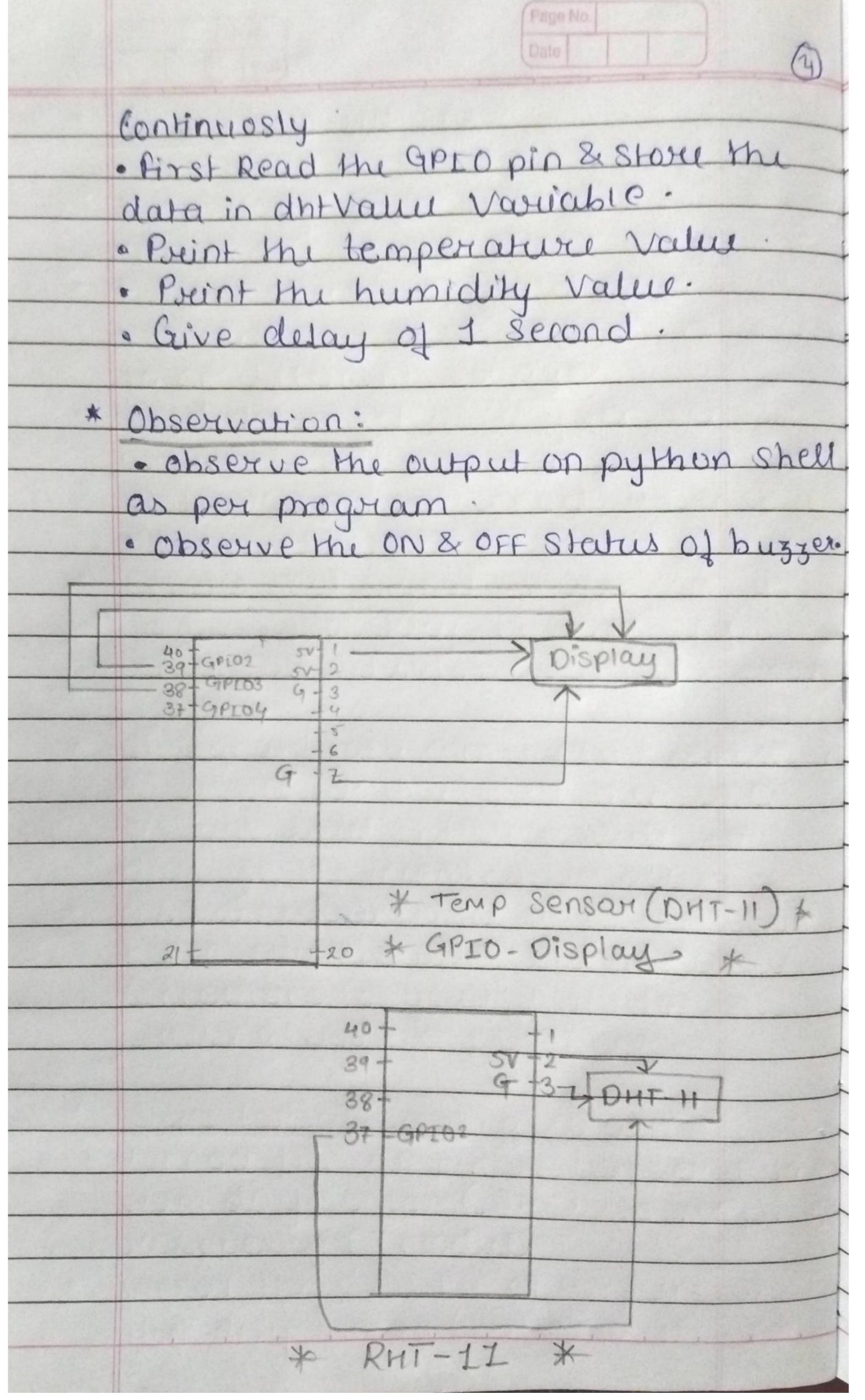
	Name: - Fokanı Sakshi Anii Wass: - TE-A Page No. Rollino: - 42 Assignment No: - 4
•	Aim: - To understand the concept of tempe- rature - Humidity Senson (DHTIL) To interface Temperature - Humidity Senson with Raspberry Pi model. To program the Raspberry Pi model to measure the real time temperature
***	Software: ~ Raspbian Os (IDLE)
***	Hardware Modules: ~ Raspberry Pi Board module. Temperature Humidity Sensor (DHMI) Module.
*	Monitor- Theory: ~ Physical quantities like humidity, Jemperature, pressure et are monito- red to get information about the environmental conditions
*	Temperature is basically amount of heat present in environment-numidity is the presence of water vapors in
*	In own module me are using "OHT11? Temperature & Humidity Sensor".
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	Page No.
	Data
*	Safety precautions
	DEDOCE TO THE DATE OF THE PROPERTY.
•	Raspherry-Piprovides 3°3V & 5V
	vcc pins
•	Raspberry-Pi operates on 3:3v
	Various sensors & aduators opera
219	te on different voltages.
•	Read datasheet of a given sensor
	or an actuator & then use approp-
	riate vcc pin to connect a sensor
	Or an actuator.
June 19	Ensure that signal voltage coming
-	to the Raspberry-Pi brom any
	sensor or actuator does not exceed
-	3-3v.
	IF signal I data coming to Raspberry
-	Pius greeater than 3.3 v then use
	Voltage leuel Shifter module 10
	decrease the incoming voltage.
- Salvia &	The Raspberry-Pius a costly denice,
	hence you should show the circuit
	Connections to your instructor before
	Starting your experiment.
*	
	Steps for assembling wirauit:
-	Connect the VCC pin of temperature
	Humidity Sensor (OHT 11) to vec plant
THE COLUMN	reaspherry Pi module.
-	Connect the data pin of temperature
-	Humidity Senson (OHTII) to GPIO pin 15

	Paga No. Date Date
	OF Rasphenne Pi module
	Of Raspherry Pi module Connect the GND pin of temperature & Humidity Senson (DHIII) to GND pin of
	Humidity Sensor (Dury) to and
	Raspberery Pi module
	Jan
*	Brocedure to install dher library:
	Open exterminal of Raspberry Pi &
	enter the following Commands.
0	Sudo apt-get update.
0	Sudo apt-get Install git-corce
0	and a ger instant git -core
0	ait close http://aithub som/a-a-a/auxu
- Luse	git clone http://github.com/szazo/ontill
0	Cd DHIII Python
0	Suda authora colore a factoria
5.7	Sudo python setup. py install.
*	Procedure: -
	- herite the program as per the algor-
	Ihm given below.
	- Sauce program in the library folder
	- Run Code Wing Run Module
*	Algorithm:
	- garparet GPIO time & date libraries
	- set all the warnings as Julise.
	- Set mode i-e GPIO.BOARD.
	- Read data using GPTO pin numbert.
	- muite while loop for displaying
	temperature & Humidity values.



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