

Experiment Number 2

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Branch ::	CSE - IoT	Sec/Grp ::	1/A
Semester ::	5 th	Date ::	21 st Sept, 2021
Subject ::	DIOT Lab	CODE ::	CSD-337

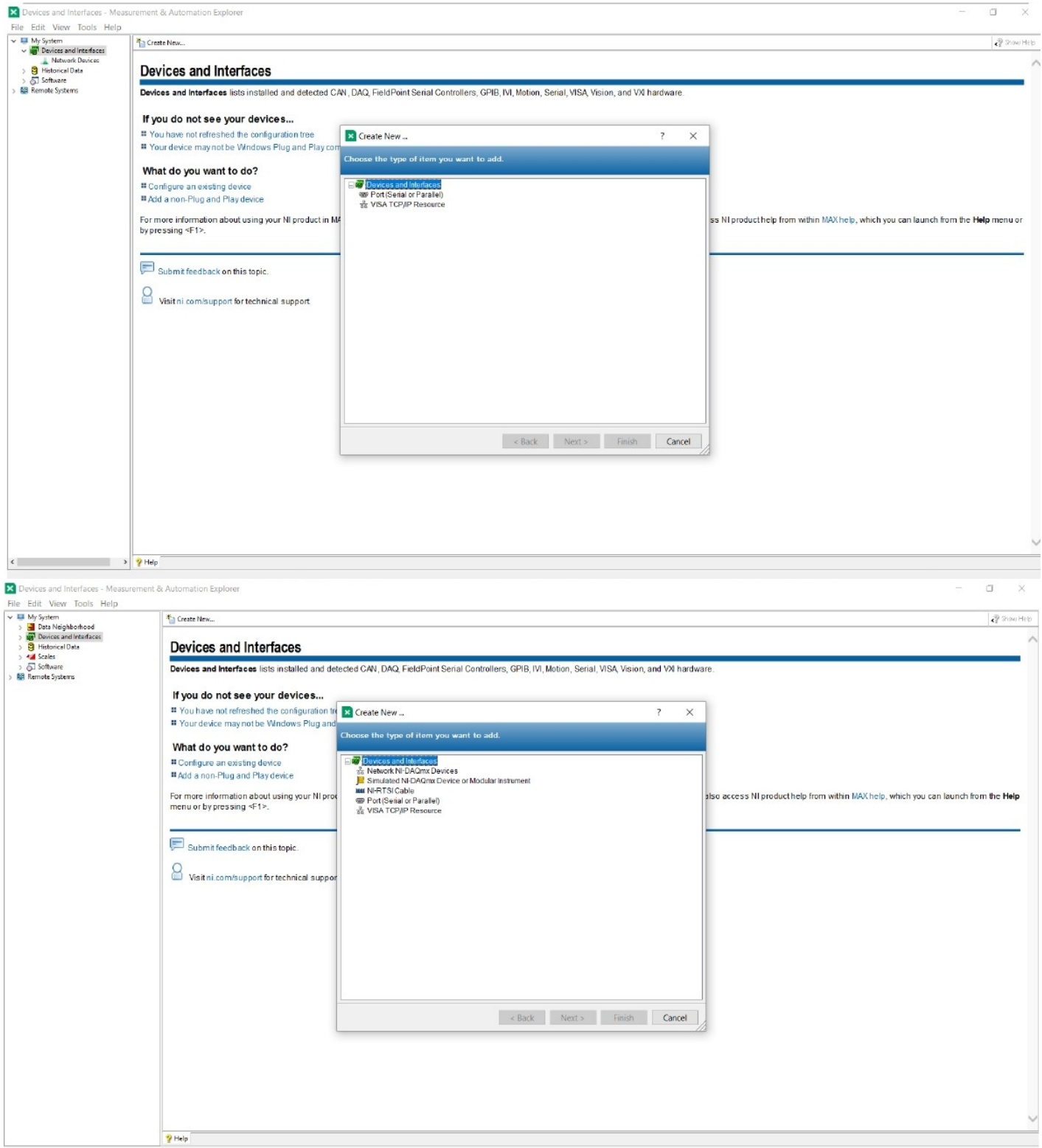
1. Aim :

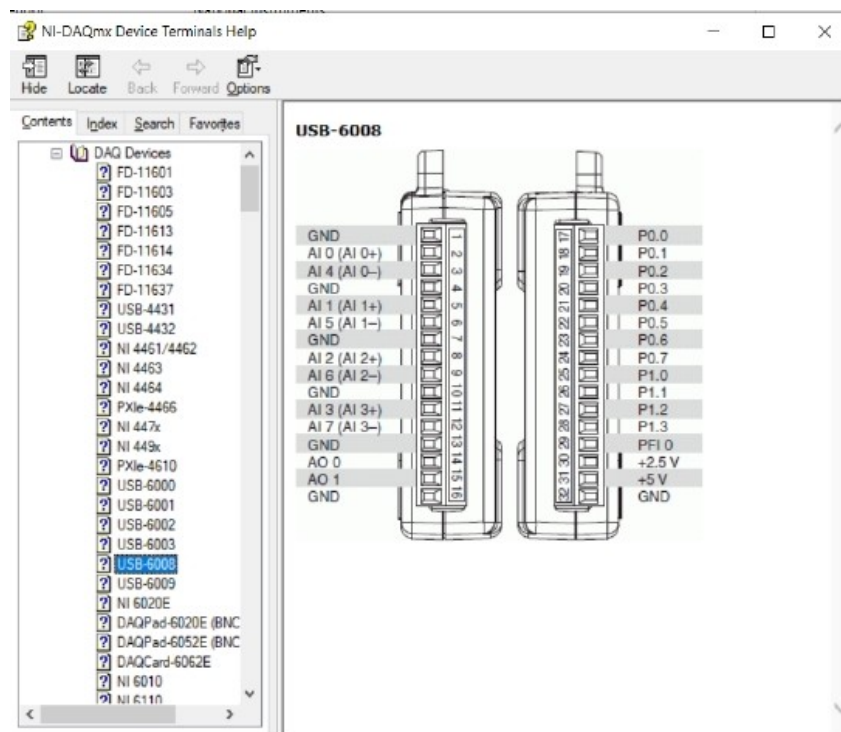
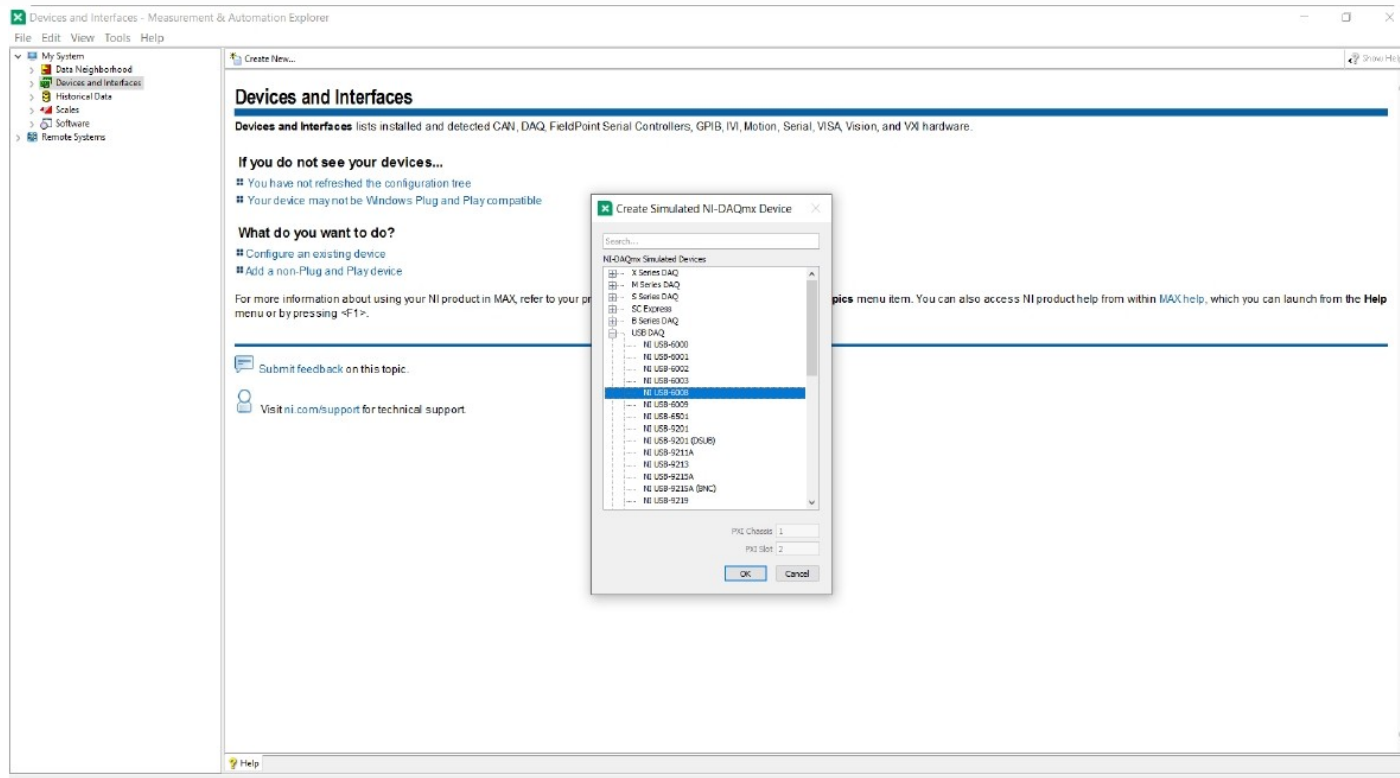
1. To study DAQ system in LABVIEW AND creat a virtual simulated device DAQMX USB 6008 and create a simple labvie program for USB 6008.
2. Measurement of temperature using Thermistor temperature sensor and perform its data logging using NI USB DAQ and LabVIEW.

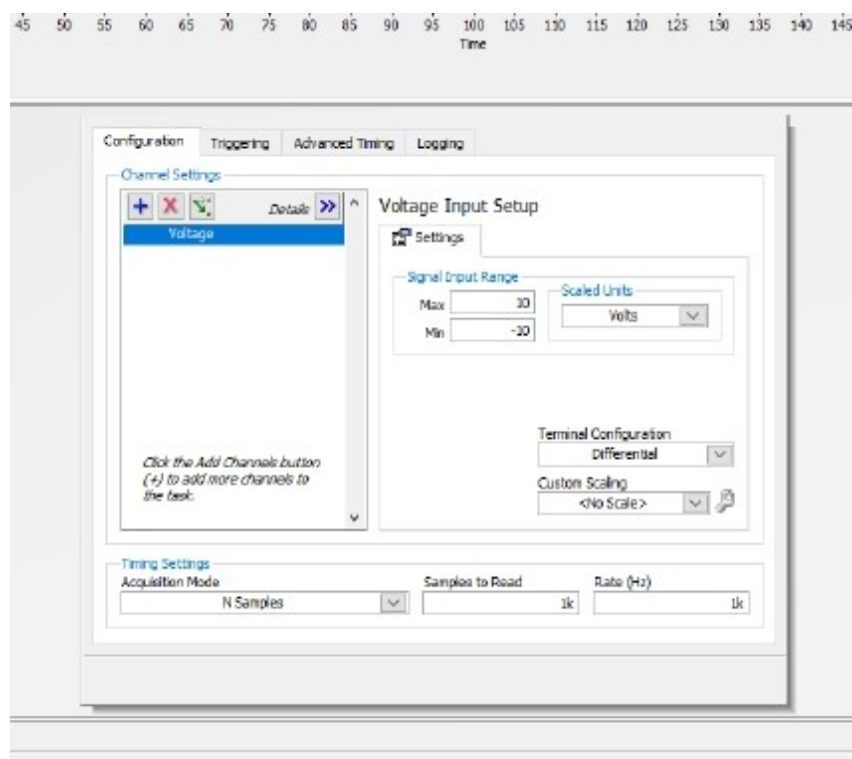
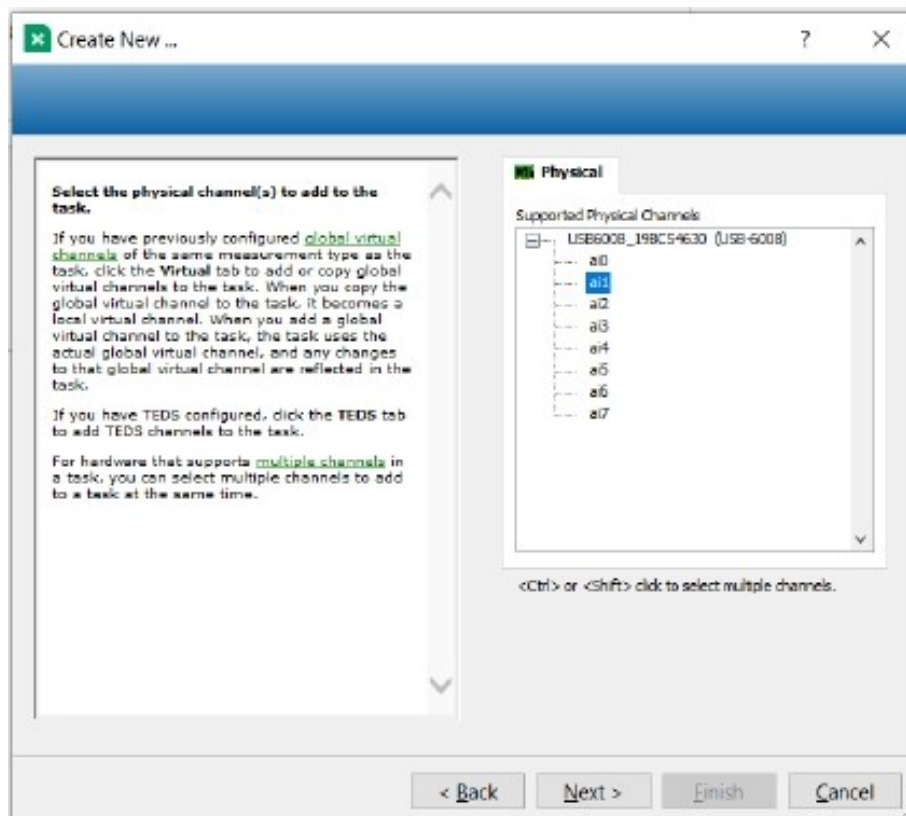
2. Task :

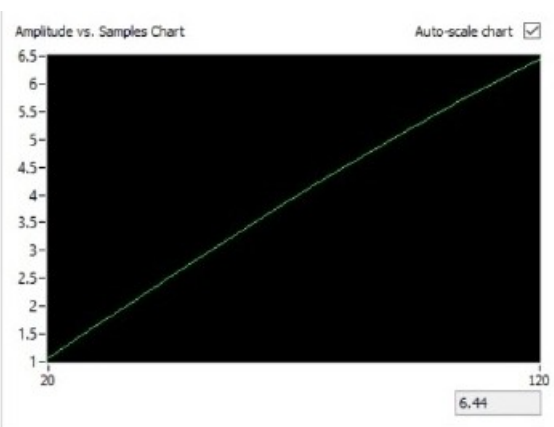
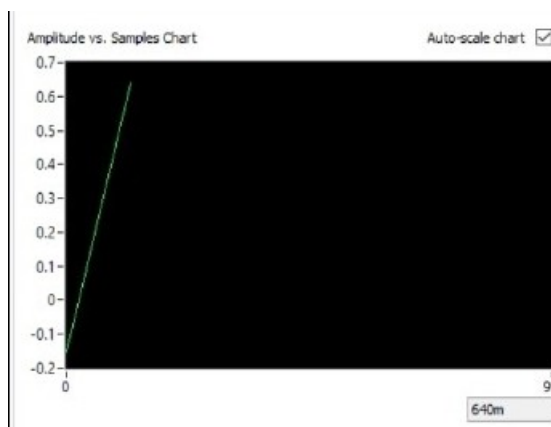
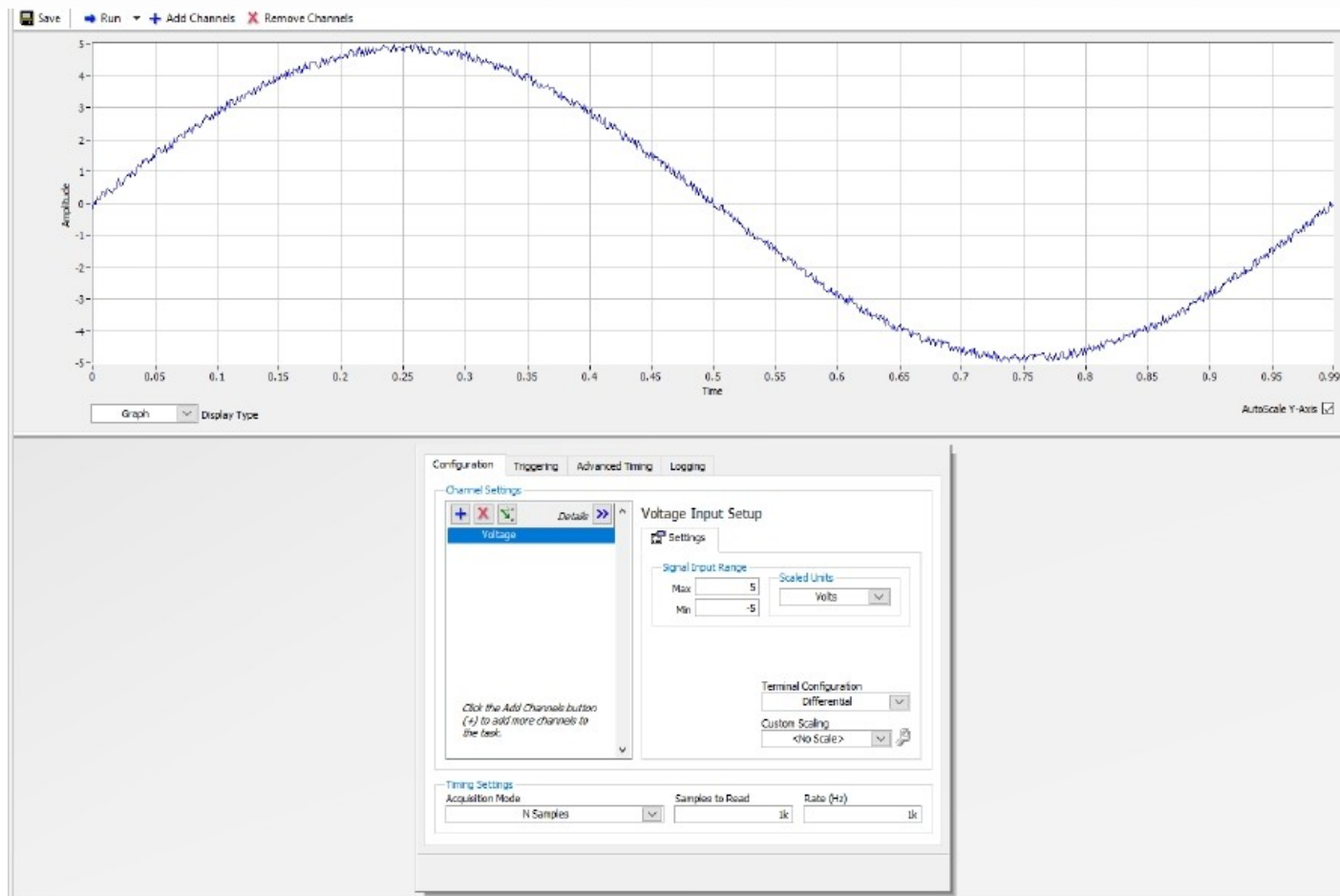
1. Create DAQ interface with Labview
2. Connect the sensor with the DAQ as per the diagram shown above.
3. Connect the USB cable of DAQ to one of the USB ports of the PC.
4. Open the LabVIEW software and create a new VI. Bring the DAQ Asst function into the block diagram by right clicking over it go to Express → Inputs → DAQ Asst.
5. Select the proper channel of the DAQ as Acquire Signals- → Analog Input- → Voltage → AI0

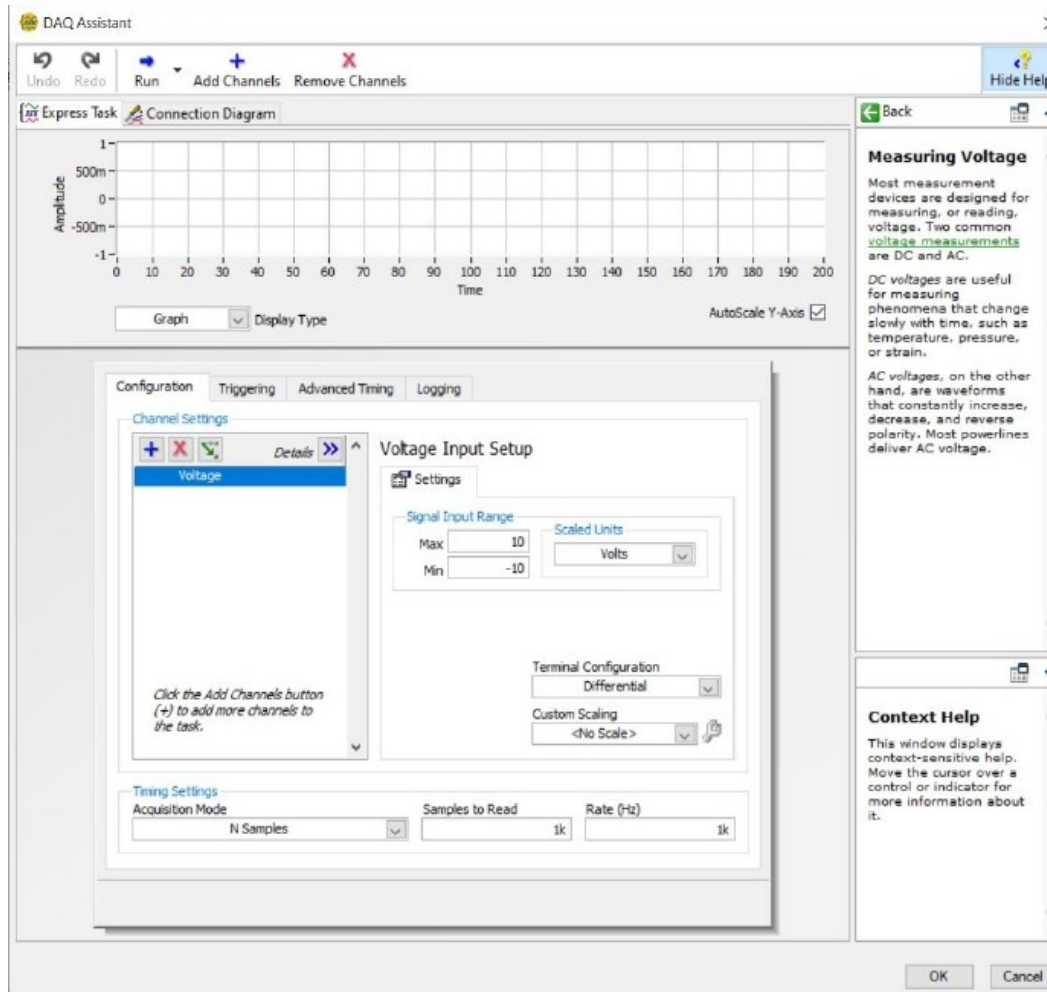
3. Snapshots of Above steps:







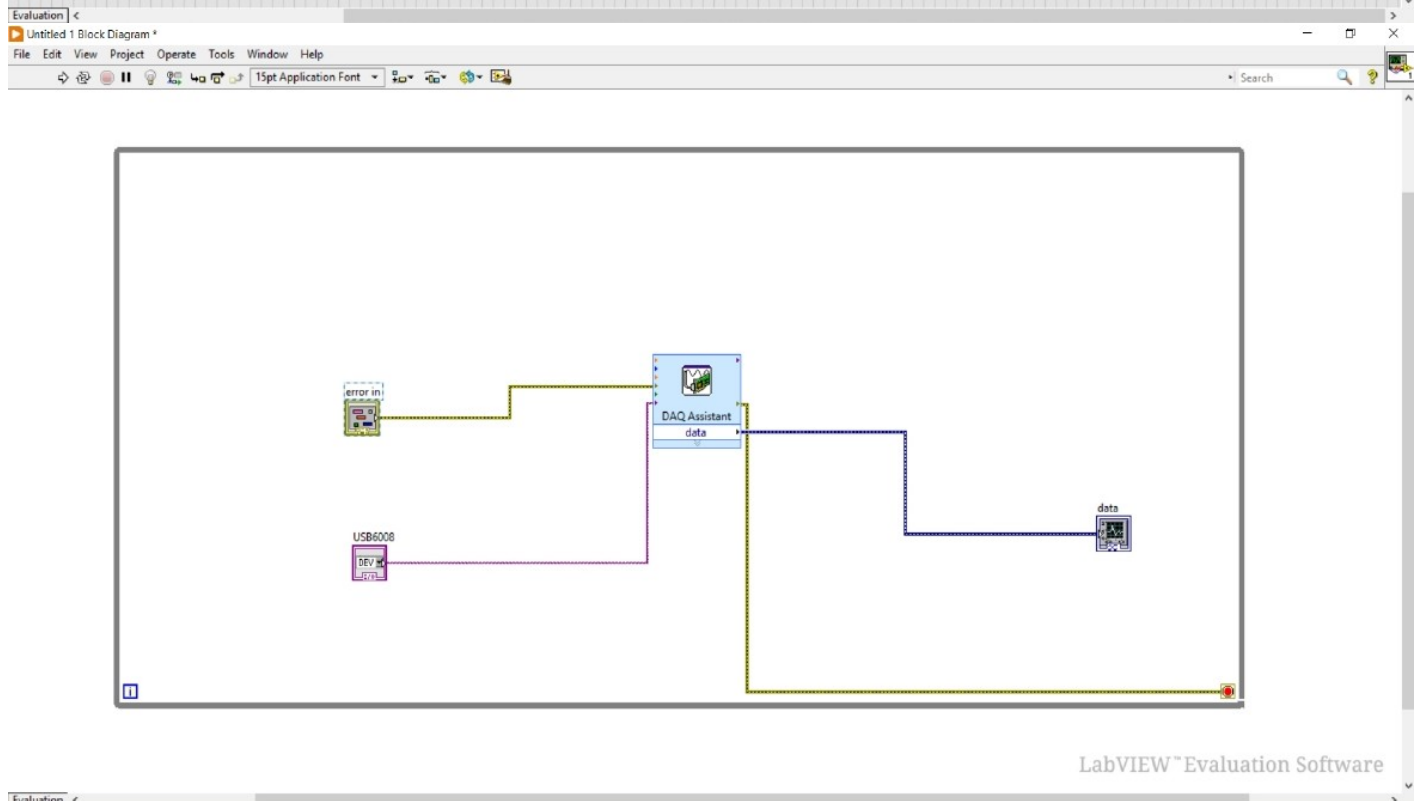
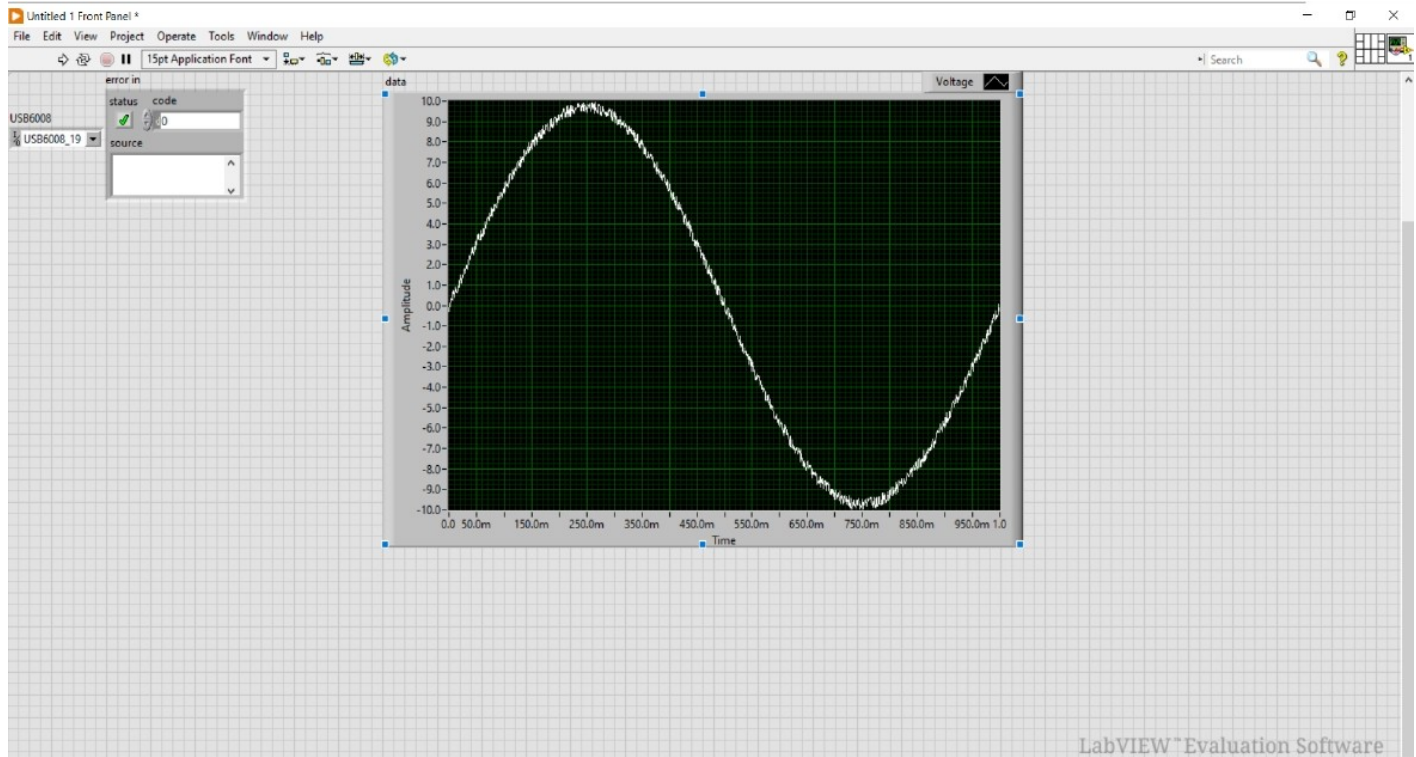




4. Steps :

1. Open NI MAX.
2. Create virtual DAQ assistance hardware.
3. Open NI LABVIEW
4. Select DAQ assistant
5. Insert it inside the while loop
6. Run it
7. End

5. Observations :



Learning Outcomes :

- Learnt about LABVIEW.
- Learnt about NI USB 6008 multifunction
- Learnt about structures.
- Learnt about DAQ.

S. No.	Parameters	Marks Obtained	Maximum Marks
1.			
2.			
3.			