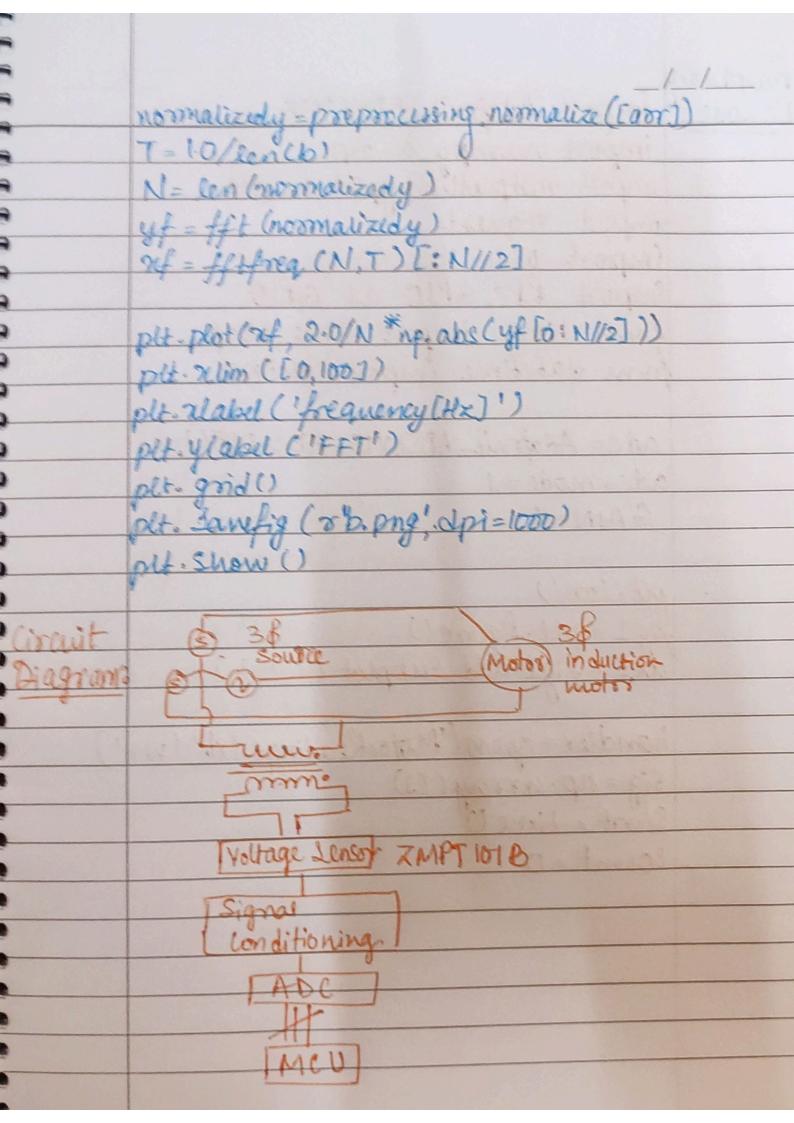
Assignment I Mansi Uniyal 19 EE100394 I Design measurement and the adequate isolated analog interface to measure 3.3KV Sphase AC Voltage and current of 100 A stimultaneously feeding to 6.6KV large tonduction motor with - IOMW Drive and with Scionents and voltage with proper isolation. from Scipy import signal, io Data Analysis from scipyofft impost fft. fftfreg Litarier import numpy as no Transform: import pandas as pd import matplotlib. pyplot as plt Schow from skleam import preprocessing trime of plut 1 with open (' I Sec NL. txt') as f: lines = fo readlines() for i in lines: b. append (int (i)) an = pp. amony (b) plt. plot (arr) plt. mabel ('Time') pet- ylabel ('Current') plt. fitle ('Motor readings') pet: grid ()
plo. show ()



Raspherry import Adaposit 1859/18 impost marginalis pyplot as pla impost requests Enjoy RPC. GP10 as GP10 form datchine tryph datchine adc= Adagouil-ALOLYIS, ATRIDIEU adcomode=1 GAIN-1otton() Ag1 = pet figure () ox1 = figs-odd support (1,1,1) handler - open (Water Readings + A) (184 819 = np. array (83) Stort a time 19 count = 0 . . . . .

while count < 1250% St=time () value= adc-read\_ade (0, gain=GAIN), data-80te = 3300) Sig=np-append(sig.value) Count += ed=time() Sleep (0.0207 (ed. st)) hondler. close () and clear (1 fig1. compas. draw() print ('Lampling frequency= 'lon(sig))
max1=max(sig)
print ('max='max1) Sleep(1).