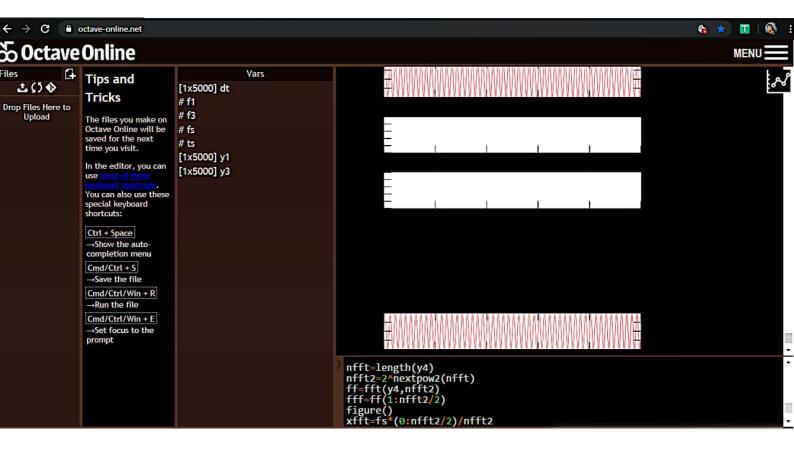
```
Date 27/8/2020
                      Name: Poolary Ewshant
 course: Digital signal processing USN: - 4 ALIREC400
 Topic: - FFT using Matlab,
                               Sem: 6th sem B'sec.
 Fast Fourier Transform using Matlab
 Clear all;
 Close di;
 clc;
 fs= 1000
 F3=1/6
 dt= 0: 65:5-6
  H= (0)
  fr = 30;
  43 = 70
 Y = 10* sin (2* pi*f1*dt)
  YJ=10# Sin (14 pix +2 # dt)
  Y3=10 4 SM (2* Pix F3 + dt)
  44: 41+ 42+ 43
Subplot (4,1,1)
 Plot (Shylly)
subplot (4,1,2)
Plot (dty 4,41)
subplot (4,113)
Plot (dty 43 41)
Sub plot (4, 1, 4)
 plot Caty 44,81
nftt = length (yu)
n ftt2= 2 nexpow 2 (nftt)
ff = ft ( Y4, nft 2)
fff = ff (1:nft2 (1)
```

figure ()

Xfft=fs*(0:n+H+2/2)/n++tz

Plot (abs (f++))

```
ECG signal Analysis usin Matlab
sig = load ('ecg.cv')
Plot (sig)
Klabel ("samples")
Ylobel ('Elechical Activity')
Title ('ECG signal sampled')
Plot (sig, 1 ro1)
 beat -count = 0;
  for k = 1: length (sig)-1
      if (sig(k)> sig(k-1) Ruig(le)>sig(le+1) &uig(le)>1
         1. K
        1 disp ( Prominant peak found );
         beat _count = beet _count +1
      end
   end
beat-count
 49 = 100;
n = length (sig);
diration _in -sec = n/ts
duration _ in - min = duration _ in xello
BPM = best - court duration -in-min
 sig = sig(1:500)
  hold off
    tigue ()
   plot(sis)
```



```
Pate: 27 May 2020
Course: Python on udemy
Topic Guz with Thinter
GUI with Thinter
```

Name: Poojary sushant USN: - 4ALBEC400 Semester: 6th B'

GUI with Tkinter

from Hinter import *

window = T(C)

det km - to- miles ():

miles = float (el-valve.get()) * 1.6

tl. insert (END, miles)

bi = Button (window, text = "Execute", command = km_to-miles)

bl. grid (row = 0, column = 0)

el - Value = string Vav ()

el = Entry (window, textvariable = el-value)
el = grid (row= o, column = 1)

to = Text (window, height = 1, width = 20)

to = grid (now = 0, column = 2)

window.mainloop()

Interfacing with detabase:

de import sqlites

def crede_table ():

conn=19lites+ (onnect ("lite.db"))

cur = conn.(urror ())

cur. execute ("Crede Toble it not exists stork liteam TExt

quantity (INTEGER, price REAL)")

conn. commit ()

conn. cdose ()

ded insert Citen, quanty, price)

```
conn = squites .connect ("like .db")
     Cur = conn·cursor()
     CUT = EXERUR ("INSERT INTO ctor values (?,?,?)",
     ( item quantity price))
     () Fimmas. nno)
      conn.close ()
insert ("Plater", 10,5)
det view ().
    conn = sqlite 3. connect ("lite. db")
    cur = Con N. CUKIOr ()
    cur = execute ("select & from stor")
    rows = cor. Fetchally
    conn. close ()
    now repm. row
 Print (View))
```

