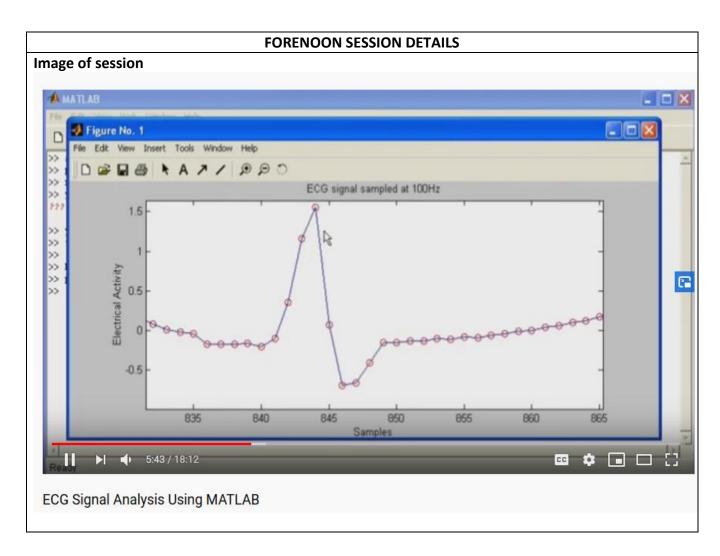
# **DAILY ASSESSMENT FORMAT**

Date:	27 may 2020	Name:	nishanth
Course:	Digitial signal processing	USN:	4al17ec063
Topic:	1. Fourier Transforms	Semester	6 <sup>th</sup> & b
	2.FFT	& Section:	
	3.FFT Fast Fourier Transform Matlab		
	4.FIR and IIR Filters		
	5.Study and analysis FIR and IIR using		
	FDA tool in MatLab		
	6.Introduction to WT		
	7.CWT & DWT		
	8.Implementation of signal Filtering		
	signal using WT in MatLAb		
	9.Short-time Fourier Transform and the		
	Spectogram		
	10.Welch's method and windowing		
	11.ECG Signal Analysis Using MATLAB		
Github	nishanthvr		
Repository:			



### Report – Report can be typed or hand written for up to two pages.

day-3

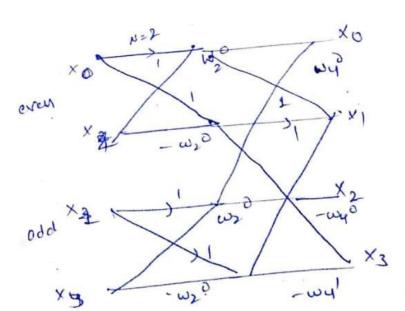
NIShaith V.R

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the function FCO)

15 called tovern favoier boutorm of FCS)

Found formien transform



Scanned with

fff fact formien foodform mattab

## Program

FS = 1000; 1. Sampling frequery TS = YES 1. Sampling period or time step 1 dt = 0:Ts: 2-75; 1 Signal duration 61=10) 12 = 30 1=10x510 (2xp1xb)xdf); A5=10XZM (3+b1x 95x 9+); Y4 = 41+42+43 A3 = 10x 21n ( 5x bx \$ 5 x 97). Subplot (4, 1,4) Subplot (9,1,1) plot (dt, yy, 'YI) plot (d1, 41, 141): Subplot (3,1,2) blit (91, 45/14). Subplot (d1, Y3, 171) plut (dt, 43, 141); 1961 = length (y4); length of time donair Signal affl >= 2 / prext pow2 (nK); 66=68+ (44, NB+); Scapled (valor ( 18)

FIR and IIR friends

Digetral filler are clamped.

- @ 11R follows
- 1 FIR frum

112 Barles furtion

FIR filler

Fourier howerm

X(F) = for Jaffe de

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Areak Area 2

x(a,b) = 500 x(1) 40.6 (4) dt.

Implemedation of signal trieny signal wring

Power Spectrum Estimation Example, Wellis mothed

Ex 1

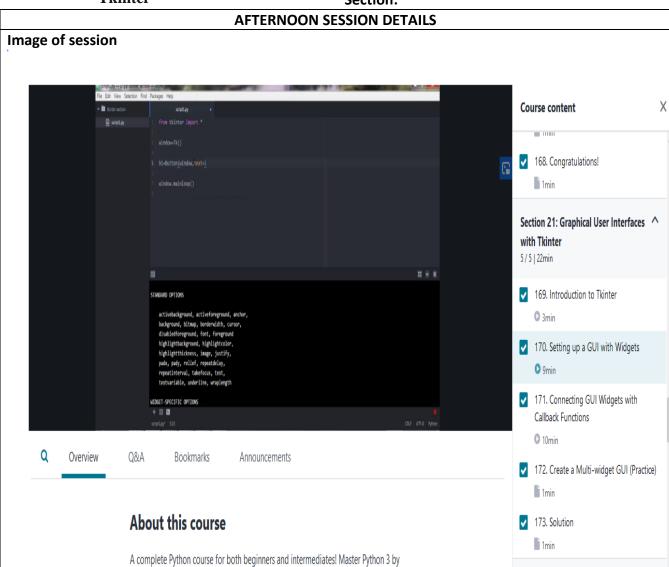
Power Spectrum Using 1pwdehl

```
Ecg Signal Analysis using mottab
 Sig = load ( 1 Ecg. +x+1);
  (Bis) told
Program to deterraine the BPM of the Ecg agnal
   beat-coud = 0',
  for K=2: length (sig)-1
   end i) (Aig(K) & sig(K-1) & sig(K)>sig(K+1) & sig(K)>1)
          desp (Promined peak found):
    end
  1001=21
 N= length (Sig)
  duration - in- second = N/65;
  duration_in_monter e duration_in Seconds (60')
 BPM = beat-count | duration_in_ minutes
```

Date: 27 may 2020 Name: nishanth
Course: python USN: 4al 17ec063

Topic: Graphical User Interfaces with Semester & 6<sup>th</sup> & b

Tkinter Section:



### Report – Report can be typed or hand written for up to two pages.

Create a Python program that expects a kilogram input value and converts that value to grams, pounds, and ounces when the user pushes the *Convert* button.

#### Program:

```
1. from tkinter import *
2.
3. # Create an empty Tkinter window
4. window=Tk()
5.
6. def from kg():
       # Get user value from input box and multiply by 1000 to get kilograms
8.
       gram=float(e2 value.get())*1000
9.
10.
        # Get user value from input box and multiply by 2.20462 to get pounds
11.
        pound=float(e2 value.get())*2.20462
12.
13.
        # Get user value from input box and multiply by 35.274 to get ounces
        ounce=float(e2 value.get())*35.274
14.
15.
        # Empty the Text boxes if they had text from the previous use and fill
16.
   them again
17. t1.delete("1.0", END) # Deletes the content of the Text box from
  start to END
        t1.insert(END, gram) # Fill in the text box with the value of gram
18.
  variable
19.
        t2.delete("1.0", END)
20.
        t2.insert(END, pound)
21.
        t3.delete("1.0", END)
22.
        t3.insert(END,ounce)
23.
24. # Create a Label widget with "Kg" as label
25. e1=Label(window,text="Kg")
26. el.grid(row=0,column=0) # The Label is placed in position 0, 0 in the
   window
27.
28. e2 value=StringVar() # Create a special StringVar object
29. e2=Entry(window,textvariable=e2 value) # Create an Entry box for users to
   enter the value
30. e2.grid(row=0,column=1)
31.
32. # Create a button widget
33. # The from kg() function is called when the button is pushed
34. b1=Button(window,text="Convert",command=from kg)
35. b1.grid(row=0,column=2)
37. # Create three empty text boxes, t1, t2, and t3
38. t1=Text(window, height=1, width=20)
39. t1.grid(row=1,column=0)
41. t2=Text(window, height=1, width=20)
42. t2.grid(row=1,column=1)
44. t3=Text(window, height=1, width=20)
45. t3.grid(row=1,column=2)
46.
47. window.mainloop()
```

