	27/5/2020 toojary
	87 5 2020 100 Jary - WAL 16E (046
	6B- PSP
2	FFT using Matlab study &
	analysis of FIR & IIR, filtering signal,
	ECO signal Dralysis.
	Fast fourier transform using matlab
	TUNI TUUTIN TIME
	clear all;
	close all;
	clc;
	\$s = 1000
	Ps = 1/2s
	dt = 0:ts:5-ts
	£ 1 = 10;
	9 2 = 30;
	f3 = 30;
	£ 3 = 70
	Y1 = 10+ Sin (24 P; + f, + dt)
	12 = 10 + sin (2 + Pi + 22 + dt)
<u></u>	M3 = 10 & sin (2 P P1 * F3 * dt)
	Yx=. 4, + 42+ 43
	subplot (4,1,1)
•	plot (dt, 41, 'Y')
	-uholot(4 19)

```
1998 = 97 (1:nfft2(2)
figure ()
xff+=fs & (0:nff+2/2
                              mat lab:
             analysis using
            ( ecg. (sv)
          xlabel ('samples'
ylabel ( Electrical Activity)
title ('E(Con signal
                      Sampled
 plot (sig, 'ro'
             =0
 beat_count
for k=2: length (sig)-2
         > sig(x-1) & sig(k)
                             519
                                  RHI
```

Looping through the key value iparivs: # create a mapping of state to abbreviation States= & Dregon: 'OR' Floride 'FL' 'California': 'CA' 'New York': 'NY Michigan': 'MI' # create a basic set of states & som cities in them Cities ['NY'] cities = & 'CA': San Francisco' 'MI': 'Detroit' FL': 'Jackson ville' & # add some more cities cities ['NY] = 'New York' cities ['OR'] = 'Portland' # Print out some cities print ('-' *10) print ("Ny state has:", cities ["Ny"] Print ("Florida's abbreviation is": states ("Floria") # do it by using the state abbreviation

Scanned with CamScanner

trint eveny city in state Print ('-' *10) for abbrev, city in cities_items(): print (f' fabbrer & has city & city ? city?") # now do both of the same time for state, abbrev in states. items(): print (f "fstate & state is abbreviate à fabbreus") print (f" & & has city of cities [abbrev] &") # get a city with a default valuer print (f"The city for the state "TX" is ideity" Break in a while loop or while loop never ends. si = 256 total = 0 while x >0; if total > 400; break

while line < = 5 1=209 while pos < line: # This print will add space after priting thevalle print (pos) # increment the value of pos by one else: #This print will add rewline of the printing the valo print (Pos) I increment the value of line by one line + = · Another while inside a while i=1while i < 11; J=O while i<i: print ('* ' end = ") j=j+1print() ニーナー print ('Rest of the program')