DAILY ASSESSMENT FORMAT

Date:	27/05/2020	Name:	Prajwal Kamagethi Chakravarti P L
Course:	Python	USN:	4AL17EC073
Topic:	1.Graphical User Interface with Tkinter	Semester & Section:	6 & B
	2.Interacting with databases		
Github Repository:	https://github.com/alvas- education-foundation/Prajwal-		
Repository.	Kamagethi.git		

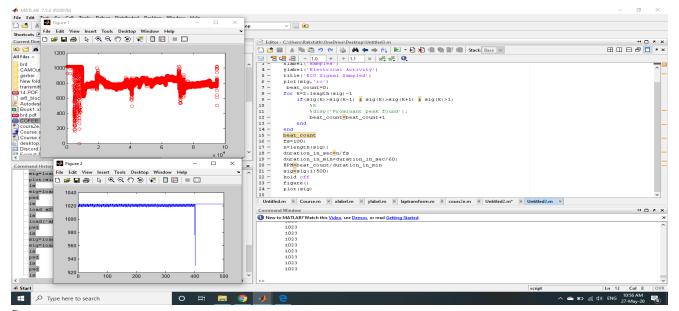
FORENOON SESSION DETAILS Report – Report can be typed or hand written for up to two pages. Safari File Edit View History Bookmarks Window Help À 💰 🗅 🚳 📤 🕮 🔡 🕸 E 🗷 🛂 🛧 🖪 The Python Mega Course: Build 10 Real World Applications Leave a rating Course content Querying data from a MySQL ▼ 176. Selecting, Inserting, Deleting, and Updating SQLite database 7min ▼ 177. Introduction to PostgreSQL Psycopg2 In previous videos I explained how to interact with 178. Selecting, Inserting, Deleting, and Updating PostGreSQL databases. If you prefer to work with MySQL PostgreSQL Records instead of PostGreSQL, see the code further down. 🔘 13min 179. Querying data from a MySQL database I set up a remote MySQL database on a server with the IP address 108.167.140.122, so you don't have to install and set up a MySQL database yourself. To connect and query data Section 23: Application 5: Build a Desktop from that remote database, you need a username, password, Database Application 0 / 9 | 1 hr 32min and the name of the database. These are written inside the Python script below. Section 24: Object Oriented Programming You also need a Python library that interacts with MySQL databases. Many libraries are compatible, but I prefer mysql.connector. To install mysql.connector: simply execute Section 25: Python for Image and Video Processing with OpenCV Section 26: Application 6: Build a Webcam Motion Overview About this course Section 27: Interactive Data Visualization with A complete Python course for both beginners and intermediates! Master Python 3 by making 10 amazing Python apps Section 28: Webscraping with Python Beautiful

In this section Creation of the GUI application main window. Add one or more of the above-mentioned widgets to the GUI application. Enter the main event loop to take action against each event triggered by the user.

Tkinter provides various controls, such as buttons, labels and text boxes used in a GUI application. These controls are commonly called widgets. Making widgets functional involves the pressing of keys on a keyboard, and mouse clicks. The simplest way to add functionality to a button is by adding a callback function is mentioned in the form of command = some callback in the widget option. After defining the callback, we can connect it to GUI. Then we also learnt on how to create a multi widget GUI. The program starts by importing the sqlite3 library. Then we establish a connection to the database.

We are using SQLite, so we need to specify is the name of the database file. Then it uses this connection to create a cursor. Then we use that cursor to ask the database to execute anything for us. The query is written in SQL, and passed to cursor. execute as a string. The database returns the results of the query to us. Then we learnt on some of the formatting techniques like inserting, deleting, and updating. Psycopg2 is the most popular python driver for PostgreSQL. We need to install Psycopg2 to use PostgreSQL from Python. Similar to SQLite, we learnt the same formatting techniques for PostgreSQL too.

Date:	27-05-2020	Name:	Prajwal Kamagethi Chakravarti P L
Course:	Digital signal processing	USN:	4AL17EC073
Topic:	1Fourier transform	Semester	6 [™] & B
	2.FFT Using MATLAB	& Section:	
	3.Study and Analysis of FIR and IIR		
	4.Filtering Signal ECG Signal Analysis		
Github	https://github.com/alvas-education-		
Repository:	foundation/Prajwal-Kamagethi.git		



Report:

MATLAB software saves and reduces a lot of time in routine calculations and application for mathematicians, physicist, engineers and scientists. In this work Laplace transform are defined and applied for solving an ODE example classically, MATLAB program are used to programming Laplace transformation for initial value problem, second order ordinary differential equations with constant coefficient, MATLAB function are constructed, estimates exact solution in less than a second, which makes easy and useful for researcher, and generates the graph of exact solution.

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constructed, estimates exact solution in less than a second, which makes easy and useful for researcher, and generates the graph of exact solution. MATLAB program is possible to simulate the Laplace transformable equations directly which has made a good advancement in the research.

Matlab code for Fast Fourier Transform

```
clear all;
close all:
clc;
fs=1000
ts=1/fs
dt=0:ts:5-ts
f1=10;
f2=30;
f3=70
y1=10*sin(2*pi*f1*dt)
y2=10*sin(2*pi*f2*dt)
y3=10*sin(2*pi*f3*dt)
y4=y1+y2+y3
subplot (4,1,1)
plot (dt, y1,'r')
subplot (4,1,2)
plot (dt, y2,'r')
subplot (4,1,3)
plot (dt, y3,'r')
subplot (4,1,4)
plot (dt, y4,'r')
nfft=length(y4)
nfft2=2^nextpow2(nfft)
ff=fft (y4, nfft2)
fff=ff (1: nfft2/2)
figure ()
xfft=fs*(0: nfft2/2)/nfft2
plot(abs(fff))
```