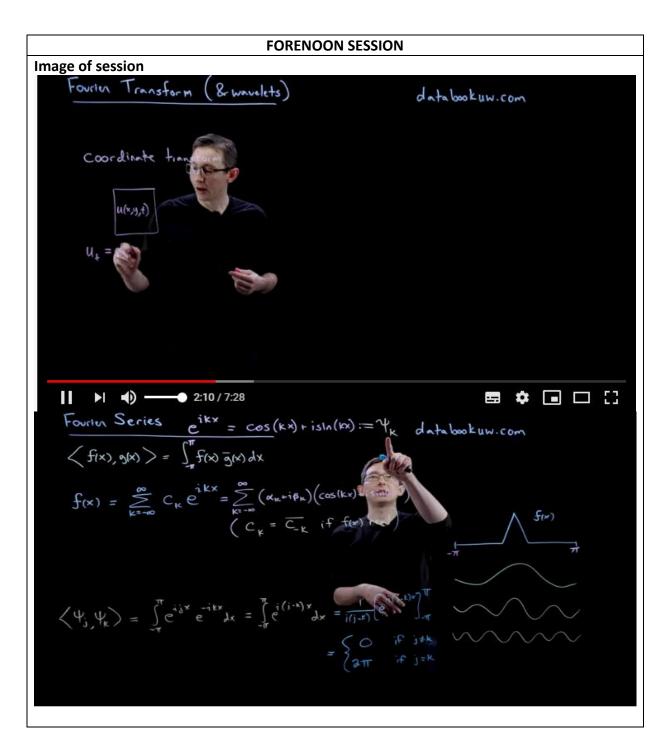
DAILY ASSESSMENT FORMAT

Date: 25/05/20	Name: Yashaswini R
Course: DSP	USN: 4AL17EC098
Topic: Introduction to Fourier Series & Fourier Transform, Fourier Series – Part 1 & 2, Complex Fourier Series, Fourier Series using Matlab, Fourier Series using Python, Fourier Series and Gibbs Phenomena Using Matlab	Semester & section: 6 th , B



Report

Fourier series:

Fourier series is a periodic function composed of harmonically related sinusoids combined by a weighted summation. With appropriate weights one cycle of the summation can made to approximate an arbitrary function in that interval. Basic Results. is called a Fourier series. Since this expression deals with convergence, we start by defining a similar expression when the sum is finite. , are called the coefficients of F n(x)

Fourier transform:

A Fourier transform is a mathematical transform which decomposes a function into its constituent Frequencies, such as the expression of a musical chord in terms of the volumes and frequencies of its constituent notes. The term Fourier transform refers to both the frequency domain representation and the mathematical operation that associates the frequency domain representation to a function of time.

Complex fourier series:

The complex Fourier series is presented first with period 2π , then with general period. The connection with the real-valued Fourier series is explained and formulae are given for converting between the two types of representation.

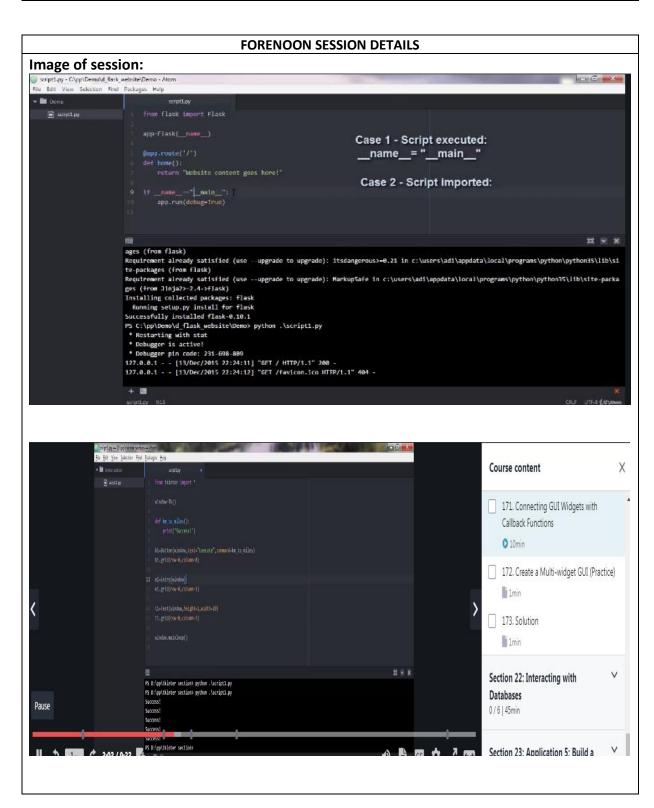
Discrete Fourier transform:

Discrete Fourier transform converts a finite sequence of equally-spaced samples of a function into a same-length sequence of equally-spaced samples of the discrete-time Fourier transform, which is a complex-valued function of frequency. The interval at which the DTFT is sampled is the reciprocal of the duration of the input sequence

Applications:

Fourier analysis has many scientific applications — in physics, partial differential equations, number theory, combinatory, signal processing, digital image processing, probability theory, statistics, forensics, option pricing, cryptography, numerical analysis, acoustics, oceanography, sonar, optics, diffraction, geometry, protein structure analysis, and other areas. This wide applicability stems from many useful properties of the transforms: The transforms are linear operators and, with proper normalization, are unitary as well. The transforms are usually invertible.

Date: 25/05/20	Name: Yashaswini R
Course: Python	USN: 4AL17EC098
Topic: Fixing programming error,	Semester & section: 6 th , B
Application 3: Build a website blocker	
Github Repository: Yashaswini	



Report:

Fixing programming errors

- The correct way to fix a Python error one of the things that separates them from novices is that they know how to fix an error.
- Not knowing how to fix an error will not only waste a lot of time, but even worse
 it can demotivate you to the point where you feel dump and give up learning how
 to program.
- In this reading we will learn the secrets of finding and fixing a Python code error.

Syntax Error: invalid syntax

- In this case the error type is a Syntax Error.
- That means you have written something that doesn't follow the Python syntax rules.
- So, now you have an idea of what error you are dealing with. For an overview of possible Python error types we can look here.
- In this case it started to read the first line and it detected round brackets after the assignment operator.

Website Blocker Using Python

This is real world program which blocks certain distracting website like Facebook, Youtube etc. during your work hours.

About the program

In this program is that we will pass the link of websites which you think is distracting and the time that you are working on your computer and program will block those website. Every system have host file whether it is Mac, Windows or Linux. Host file in Mac and Linux: /etc/hosts Host file in Windows.