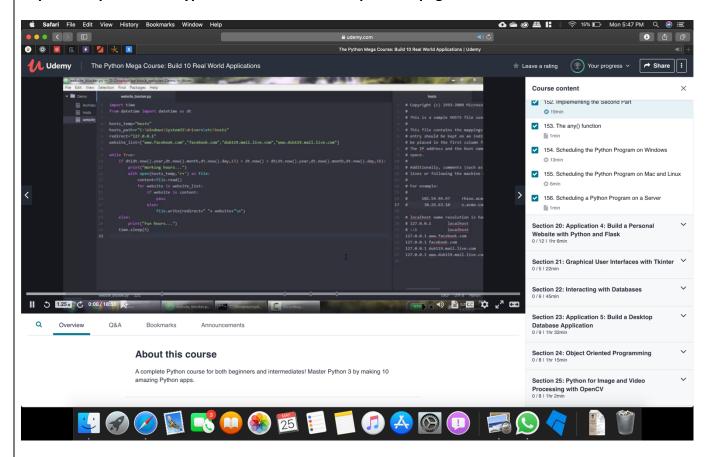
## **DAILY ASSESSMENT FORMAT**

| Date:                 | 20/05/2020  | Name:                  | Prajwal Kamagethi Chakravarti P L |
|-----------------------|---|------------------------|-----------------------------------|
| Course:               | Python  | USN:                   | 4AL17EC073                        |
| Topic:                | Python  | Semester<br>& Section: | 6 & B                             |
| Github<br>Repository: | https://github.com/alvas-<br>education-foundation/Prajwal-<br>Kamagethi.git |                        |                                   |

#### **FORENOON SESSION DETAILS**

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



#### 1. Fixing programming errors:

- Invalid syntax: For example, we need to put proper parenthesis, indentations.
- "^ " indicates where the error is occurring.
- Handling exceptions: occurs between the try and except keywords has been executed.
- Runtime error: Every other error which is not an invalid syntax error is a Runtime error. for example: divide by zero, type error, identifier error, traceback error.

- After this section, we learnt on how to ask proper questions on errors.
- To solve the runtime errors, we can copy paste the error onto the google or if the logic behind the error is known, it can be solved easily by ourselves.

#### 2.Application 3: Building a website blocker:

- Python website blocker is to block some certain websites which can distract the user during the specified amount of time.
- Every system has host file whether it is Mac, Windows or Linux.

Host file in Mac and Linux: /etc/hosts

- Using python file handling manipulation, we will write the hostname in hosts.txt and remove the lines after our working hours.
- Windows user need to create a duplicate of OS's host file. Now provide the path of the duplicate file in hosts\_path mentioned in the script.
- After the scheduling process on different operating systems, there are certain set of steps to be followed on desktop to make the website blocker work.

After the settings are completed the system has to get restarted. Finally, the website blocker works.

| Date:       | 25-05-2020                          | Name:      | Prajwal Kamagethi Chakravarti P L |
|-------------|-------------------------------------|------------|-----------------------------------|
| Course:     | Digital signal processing           | USN:       | 4AL17EC073                        |
| Topic:      | DSP                                 | Semester   | 6 <sup>™</sup> & B                |
|             |                                     | & Section: |                                   |
| Github      | https://github.com/alvas-education- |            |                                   |
| Repository: | foundation/Prajwal-Kamagethi.git    |            |                                   |

## Fourier Series: Part 1

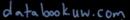
$$\langle f(x), g(x) \rangle = \int_{a}^{b} f(x) \overline{g}(x) dx$$

$$f(x) = \frac{A_o}{\lambda} + \sum_{k=1}^{\infty} \left( A_k \cos(kx) + B_k \sin(kx) \right)$$

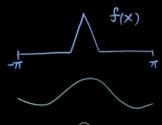
$$A_{k} = \prod_{-\pi} \int_{-\pi}^{\pi} f(x) \cos(kx) dx = \lim_{x \to \infty} \int_{-\pi}^{\pi} f(x) \cos(kx) dx$$

$$B_{k} = \frac{1}{\pi} \int_{-\pi}^{\pi} f_{k} \sin(kx) dx = \frac{1}{\|\sin(kx)\|^{8}} \langle f(x), \sin(kx) \rangle$$

$$\hat{f} = \langle \vec{f}, \vec{x} \rangle \frac{\vec{y}}{\|\vec{x}\|^{4}} + \langle \vec{f}, \vec{y} \rangle \frac{\vec{y}}{\|\vec{y}\|^{2}}$$







### **)** 8:30 / 12:15

Scroll for details

## a & #

# Fourier Series

$$\langle f(x), g(x) \rangle = \int_{0}^{b} f(x) \overline{g}(x) dx$$

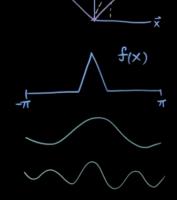
$$f(x) = \frac{A_o}{\lambda} + \sum_{k=1}^{\infty} \left( A_k \cos(kx) + B_k \sin(kx) \right)$$

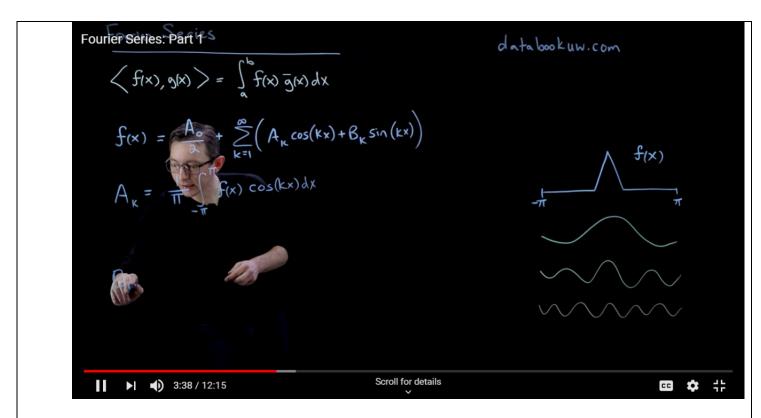
$$A_{k} = \prod_{x=1}^{\infty} \int_{-\pi}^{\pi} f(x) \cos(kx) dx = \frac{1}{|\cos(kx)|^{2}} \left\langle f(x), \cos(kx) \right\rangle$$

$$B_{k} = \frac{1}{\pi} \int_{\pi}^{\pi} f_{k} \sin(kx) dx = \frac{1}{\|\sin(kx)\|^{2}} \langle f(x), \sin(kx) \rangle$$

$$\vec{f} = \langle \vec{f}, \vec{x} \rangle \frac{\vec{x}}{\|\vec{x}\|^{2}} + \langle \vec{f}, \vec{v} \rangle \frac{\vec{y}}{\|\vec{y}\|^{2}}$$

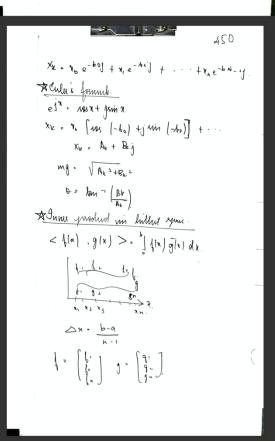
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Report:

Foreir Transform \* Coodinate barrefour for expirating images, mallunatically Ut. X D2 U - yeartril DE SVD. Data driven FFT -> Faut famis Transform. mager, videos, ID alga, andro compression. etc are unywheat nung FFT Forius harryoun XLF) = 00 j n(t) e-jarat -olt. Na(b). Ta(t) work dt. x0 (4) 2 ] n th) . xm ox ft - dt untinens = x(b) = 1 = (t/. e-3 x/t.ok. distribute - XI = N-1 NM . e-jaxun



$$\int_{0}^{10} |x|^{2} = \int_{0}^{100} a_{\mu} \cos \left(k \frac{a_{\mu} x}{L}\right) + b_{\mu} \sin \left(k \frac{a_{\mu} x}{L}\right)$$

$$a_{\mu} = \left(\int_{0}^{10} |x|^{2} + a_{\mu} x \right)$$

$$b_{\mu} = \left(\int_{0}^{10} |x|^{2} + a_{\mu} x \right)$$

$$b_{\mu} = \left(\int_{0}^{10} |x|^{2} + a_{\mu} x \right)$$