DAILY ASSESSMENT FORMAT

Date:	1 June 2020	Name:	Karegowda kn
Course:	DSP	USN:	4al16ec029
Topic:	FFT Using MATLAB, Study and Analysis of FIR and IIR, Filtering SignalECG Signal Analysis.	Semester & Section:	6th sem & B sec
Github Repository:	Karegowda-courses		

FORENOON SESSION DETAILS

Fourier Transforms:

Digital Signal Processing/Discrete Fourier Transform. As the name implies, the Discrete Fourier Transform (DFT) is purely discrete: discrete-time data sets are converted into a discrete-frequency representation. This is in contrast to the DTFT that uses discrete time, but converts to continuous frequency.

Fast Fourier Transform:

$$X_p = \sum_{n=0}^{N-1} x_n \bullet W_N^{np} \qquad 0 \le p \le N-1$$

$$W_N \triangleq e^{-j\frac{2\pi}{N}}$$

FIR and IIR Filters:

1. FIR Filter

- Consider the function described by the transfer function.
- The corresponding difference equation.

2. IIR Filter

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Course: Python	USN: 4al16ec029
Topic: File processing	Semester & Section: 6th sem & B sec

AFTERNOON SESSION DETAILS

Report –

1.writing Text to a file

```
with open("files\fruits.txt", "w") as myfile:
        myfile.write("tomato\ncucumber\nchilli\n")
        myfile.write("chitranna")
```

2.appending text to a existing file

```
with open("files\fruits.txt","a+") as myfile:
        myfile.write("\napple")
        content = myfile.read()
print (content)
```

3.summary

File processing

Read an existing file with python

```
with open("file.txt") as file:
    content = file.read()
```

Create new file and write some text to it

```
with open("file.txt", "w") as file:
    content = file.write("Sample text")
```

Append a textbtoa existing file without overwriting it

```
with open("file.txt", "a") as file:
    content = file.write("More sample text")
```

Append and read a file with

```
with open("file.txt", "a+") as file:
    content = file.write("Even more sample text")
    file.seek(0)
```

```
content = file.read()
```