**DAILY ASSESSMENT FORMAT**

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| **Date:** | **26 MAY 2020** | **Name:** | **Pv sai suraksha** |
| **Course:** | **Digital Signal Processing** | **USN:** | **4AL17EC064** |
| **Topic:** | **Fourier Series and Gibbs Phenomenon using Python, Laplace transform using Matlab,Z Transform Using Matlab.** | **Semester & Section:** | **6th sem & B sec** |
| **Github Repository:** |  |  |  |

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| **FORENOON SESSION DETAILS** |
| **Image of session**   |  | | --- | | page1image55003168 | |  | |
| **Report – Report can be typed or hand written for up to two pages.**  **Fourier Series and Fourier Transform Fourier Series**  **Fourier Transform**  ∞ *f*(*x*)=1*a*0 +∑(*akcos*2*kt*+*bksin*2*kt*)  −∞  ∞  *X*(*F*) = ∫ *x*(*t*)*e*−*j*2*Ftdt* −∞  2  **Fourier Series and Gibbs Phenomana Using Python import numpy as np import matplotlib.pyplot as plt plt.rcParams['figure.figsize']=[8,8] plt.rcParams.update({'font.size':18})**  **dx=0.01 L=2\*np.pi x=np.arange(0,L+dx,dx) n=len(x) nquart=int(np.floor(n/4)) f=np.zeros\_like(x) f[nquart:3\*nquart]=1 A0=np.sum(f\*np.ones\_like(x))\*dx\*2/L fFs=A0/2\*np.ones\_like(f) for k in range(1,101):**  **Ak=np.sum(f\*np.cos(2\*np.pi\*k\*x/L))\*dx\*2/L Bk=np.sum(f\*np.sin(2\*np.pi\*k\*x/L))\*dx\*2/L fFs=fFs+Ak\*np.cos(2\*k\*np.pi\*x/L)+Bk\*np.sin(2\*k\*np.pi\*x/L)**  **plt.plot(x,f,color='k',LineWidth=2) plt.plot(x,fFs,'-',color='r',Linewidth=1.5) plt.show()**  **Laplace Transform [Matlab] clear all; close all; syms L f t; f=(exp(-3\*t)\*sin(2\*t))/t**  **L=laplace(f**​**)**  **Inverse Laplace Transform clear all; close all;**  **syms F,s,x; F=(s+29)/(s^3+4\*s^2+9\*s+36) ilaplace(F,x)**  **Z Transform Using Matlab clear all; close all; syms n,w;**  **a=sin(w\*n) b=ztrans(a) disp(b) (z\*sin(w))/(z^2 -2\*cos(w)\*z+1) pretty(b)** |

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| **Date:** | **26 MAY 2020** | **Name:** | **Pv sai suraksha** | |
| **Course:** | **Python** | **USN:** | **4AL17EC064** | |
| **Topic:** | **Personal Website with Python and Flask** | **Semester & Section:** | **6th sem & B sec** | |
| **AFTERNOON SESSION DETAILS** | | | |
| **Image of session** | | | |
| **Report – Report can be typed or hand written for up to two pages.**  **script1.py**  **from**​ **flask** ​**import**​ **Flask, render\_template app=Flask(**​**\_\_name\_\_**​**)**  **@app.route**​**(**​**'/'**​**) def**​ ​**home**​**():**  ​**return**​ **render\_template(**​**"home.html"**​**)**  **@app.route**​**(**​**'/about/'**​**) def**​ ​**about**​**():**  ​**return**​ **render\_template(**​**"about.html"**​**)**  **if**​ ​**\_\_name\_\_**​**==**​**"\_\_main\_\_"**​**: app.run(**​**debug**​**=**​**True**​**)**  **home.html**  **{% extends "layout.html" %} {% block content %} <**​**div**​ ​**class**​**=**​**"home"**​**>**  ​**<**​**h1**​**>**​**My homepage**​**</**​**h1**​**>**  ​**<**​**p**​**>**​**This is a test website**​**</**​**p**​**> </**​**div**​**>**  **{% endblock %}**  **about.html**  **{% extends "layout.html" %} {% block content %} <**​**div**​ ​**class**​**=**​**"about"**​**>**  ​**<**​**h1**​**>**​**My about page**​**</**​**h1**​**>** ​**<**​**p**​**>**​**This is a test website again**​**</**​**p**​**>** ​**<**​**p**​**>**​**This was added later**​**</**​**p**​**>**  **</**​**div**​**> {% endblock %}**  **layout.html**  **<!**​**DOCTYPE**​ ​**html**​**> <**​**html**​**>**  ​**<**​**head**​**>**  ​**<**​**title**​**>**​**Flask App**​**</**​**title**​**>**  ​**<**​**link**​ ​**rel**​**=**​**"stylesheet" href**​**=**​**"{{url\_for('static',filename='css/main.css')}}"**​**>**  ​**</**​**head**​**>** ​**<**​**body**​**>**  ​**<**​**header**​**>** ​**<**​**div**​ ​**class**​**=**​**"container"**​**>**  ​**<**​**h1**​ ​**class**​**=**​**"logo"**​**>**Persis’ **web app**​**</**​**h1**​**>** ​**<**​**strong**​**><**​**nav**​**>**  ​**<**​**ul**​ ​**class**​**=**​**"menu"**​**>** ​**<**​**li**​**><**​**a**​ ​**href**​**=**​**"{{ url\_for('home') }}"**​**>**​**Home**​**</**​**a**​**></**​**li**​**>** ​**<**​**li**​**><**​**a**​ ​**href**​**=**​**"{{ url\_for('about') }}"**​**>**​**About**​**</**​**a**​**></**​**li**​**>**  ​**</**​**ul**​**>** ​**</**​**nav**​**></**​**strong**​**>**  ​**</**​**div**​**>** ​**</**​**header**​**>** ​**<**​**div**​ ​**class**​**=**​**"container"**​**>**  **{%block content%}**  **{%endblock%}**  ​**</**​**div**​**>** ​**</**​**body**​**>**  **</**​**html**​**>** | | | |