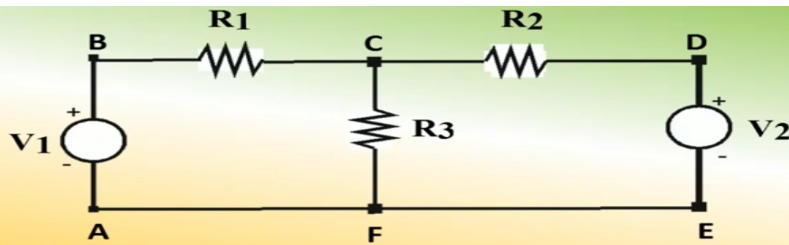


DAILY ASSESSMENT FORMAT

Date:	1 JUNE 2020	Name:	MANAVI
Course:	ELECTRICAL NETWORK THEORY	USN:	4AL18EC031
Topic:	DAY 1:-network terminology basic circuit and analysis and network topology. graph of a network. tree of graph and incidence matrix. formation of tie set and cut set matrix and its application in kvl and kcl.	Semester & Section:	4TH SEM & A SEC
Github Repository:	Manavi-test		

AFTERNOON SESSION DETAILS

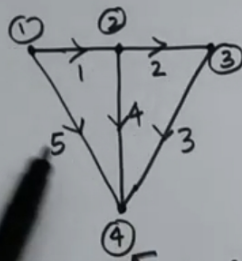
Image of session



Branch:

It is defined as that **path** in a network which traces from

one junction point to the next junction point.



4 nodes

Branches.

Nodes	1	2	3	4	5
①	+1	0	0	0	+1
②	-1	+1	0	+1	0
③	0	-1	+1	0	0
④	0	-1	-1	-1	-1
<u>Add</u>	0	0	0	0	0

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

NETWORK TERMINOLOGY:

- Connection: In networking, a connection refers to pieces of related information that are transferred through a network.
- Packet: A packet is, generally speaking, the most basic unit that is transferred over a network.
- LAN: LAN stands for “local area network”. It refers to a network or a portion of a network that is not publicly accessible to the greater internet. A home or office network is an example of a LAN.
- WAN: WAN stands for “wide area network”. It means a network that is much more extensive than a LAN. While WAN is the relevant term to use to describe large, dispersed networks in general, it is usually meant to mean the internet, as a whole.
- IPProtocol: A protocol is a set of rules and standards that basically define a language that devices can use to communicate. There are a great number of protocols in use extensively in networking, and they are often implemented in different layers.
- Port: A port is an address on a single machine that can be tied to a specific piece of software. It is not a physical interface or location, but it allows your server to be able to communicate using more than one application. Firewall: A firewall is a program that decides whether traffic coming into a server or going out should be allowed. A firewall usually works by creating rules for which type of traffic is acceptable on which ports. Generally, firewalls block ports that are not used by a specific application on a server.

Date: 1 JUNE 2020
Course: PYTHON
Topic: day 14:-interactive data visualization
with bokeh
webscraping with python
beautiful soup.

Name: MANAVI
USN: 4AL18EC031
Semester 4th and A
& Sec:

AFTERNOON SESSION DETAILS

Image of session

```
from bs4 import BeautifulSoup
import requests

source = requests.get('https://www.amazon.com/CreepyParty-Novelty-Halloween-Costume-Party/')
soup = BeautifulSoup(source, 'lxml')
print(soup.prettify())
```

Ln: 8 Col: 0

```
Discover & try
<br/>
subscription services
</span>
</td>
<td class="navFooterDescSpacer" style="width: 4%">
</td>
<td class="navFooterDescItem">
</td>
</tr>
</table>
</div>
<div class="navFooterLine navFooterLinkLine navFooterPadItemLine navFooterCopyright">
<ul>
<li class="nav_first">
<a class="nav_a" href="/gp/help/customer/display.html?ie=UTF8&nodeId=508088">
Conditions of Use
</a>
</li>
<li>
<a class="nav_a" href="/gp/help/customer/display.html?ie=UTF8&nodeId=468496">
Privacy Notice
</a>
</li>
</ul>
```

Ln: 8409 Col: 4

```
from selenium import webdriver
from selenium.webdriver.support.ui import Select
import time

def main():
    browser = webdriver.Chrome(executable_path='chromedriver/chromedriver')
    browser.get('http://www.clark.edu/academics/schedule/index.php')
    ctec = browser.find_element_by_id('AdvancedSearchButton')
    ctec.click()

    for option in browser.find_elements_by_tag_name('option'):
        if option.text == 'CTEC':
            option.click() # select() in earlier versions of webdriver
            break

    ctecClasses = browser.find_element_by_id('ClassSearchButton')
    ctecClasses.click()

    time.sleep(2)

    courses = ['4449', '4450', '4452', '5590', '4453', '4455', '4456', '4457', '5589', '4458', '4459', '4460']
    for course in courses:
        ctecClasses = browser.find_element_by_id('course_' + course)
        instructor = ctecClasses.find_elements_by_class_name('noseats')
        ctecClasses = ctecClasses.find_elements_by_tag_name('div')
        ctecClasses[0].click()
        time.sleep(3)

        course_title = browser.find_elements_by_xpath("//*[@contains(text(), 'Course Title')]")
        isClosed = browser.find_elements_by_class_name('noseats')
        isOpen = browser.find_elements_by_xpath("//*[@contains(text(), 'Seats Available')]")
        if len(isClosed) > 0:
            if isClosed:
                print(course, course_title[0].text, instructor[0].text, "is closed")
            elif len(isOpen) > 0:
                print(course, course_title[0].text, isOpen[0].text)
            time.sleep(2)
            close = browser.find_element_by_link_text('x Close')
            close.click()
```

Python 3.6.3 (v3.6.3:2c5fed86e0, Oct 3 2017, 00:32:08)
[GCC 4.2.1 (Apple Inc. build 5666) (dot 3)] on darwin
Type "copyright", "credits" or "license()" for more information.
>>> RESTART: /Users/bruceelgart/Dropbox/Clark/CTEC121/Python Programs/Selenium/clark_schedule.v2.py
4449 Course Title: COMPUTING ESSENTIALS Seats Available: 003
4450 Course Title: COMPUTING ESSENTIALS HUGHES R is closed
4452 Course Title: PC SUPPORT CUST SERVICE Seats Available: 005
5590 Course Title: INTRO TO THE INTERNET Seats Available: 006
4453 Course Title: COMMAND LINE ESSENTIALS Seats Available: 005
4455 Course Title: INTRO TO PROGRAMMING BAKER N is closed
4456 Course Title: HTML FUNDAMENTALS PETERSEN A is closed
4457 Course Title: HTML FUNDAMENTALS PETERSEN A is closed
5589 Course Title: INTRO TO PROGRAMMING ELGORT B is closed
4458 Course Title: HTML FUNDAMENTALS ELGORT B is closed
4459 Course Title: PHP WITH SQL I Seats Available: 001
4460 Course Title: MTA WINDOWS FUNDAMENTALS Seats Available: 005
4461 Course Title: MTA NETWORK FUNDAMENTALS Seats Available: 005
4464 Course Title: WORDPRESS I GAYLORD F is closed
4465 Course Title: INTRO TO ACCESS Seats Available: 018
4466 Course Title: PC HELP DESK Seats Available: 017
4467 Course Title: INTRO MIS SYSTEMS COLEMAN A is closed
5649 Course Title: INTRO MIS SYSTEMS Seats Available: 008
5592 Course Title: COMPTIA A+ FUNDAMENTALS Seats Available: 002
4470 Course Title: COMPTIA A+ OS NETWORK Seats Available: 004
>>>

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

WEB SCRAPING USING PYTHON:

- Web scraping is useful when you need to extract large amounts of data from the internet.
- The extracted data can be saved either on your local computer or to a database.
- Some websites will not allow us to save a copy of the data displayed on the web browser for personal use.
- In that case, we have to manually copy and paste the data – a difficult job that can take hours to complete if you have large data to copy.
- Instead of copying the data manually from websites, we can automate this process with the help of web scraping.
- The web scraping software will perform the same manual task for us with less time.
- However, some websites won't allow the automated scrapers to scrape their data while others don't care.
- Before you scrape data from the website make sure you don't violate any Terms of Service.
- Please check out [Legal Perspectives on Scraping Data From The Modern Web](#) which explains more about the legal aspects of web scraping,