Video Pg.

Experiment 1

Aim: Introduction to Linux OS (Ubuntu 16.04 LTS) & Terminal & it's basis

Theory

What is Linux?

- Linux is a Kernal created by Linus Torvalds as an open source project.
- This term is often used for OS that uses the same Kernel
- Example: Fedora, Linux mint, Ubuntu, Arch.

What is linux shell or terminal?

- Shell is a program that allows the user to access the terminal
- Terminal is used to run command.

Linux Commands.

1. pwd: print working directory
2. ls: list all files in current directory
3. nano: run the program nano that is a Unix command line text editor tool
4. cd: Change directory
5. mkdir: make directory
6. rm: remove file
7. rmdir: remove directory

8. touch: used to make a file
9. man: opens linux manual
10. mv: move file/directory
11. echo: print a string
12. cp: copy file
13. sudo: super user do
14. cat: reads file sequentially and writing them to a standard output.
15. wait: add a sleep.
16. help: ~~add~~ display all help text.
17. time: display current time
18. apt-get: used to install programs
19. tar: tape archiving.
20. Chmod: change modification permissions
21. shutdown: shutdown the system
22. Kill: Kill a program
23. reboot: restart a ~~p~~the system
24. du: disk usage
25. logout: logout from logged in user
26. alias: set a shortcut
27. exit: exit from a program
28. arch ping: checks the ping for an IP
29. sleep: sleep the program
30. ifconfig: display network interface configuration for Unix like OS

21/1/19

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Experiment 2

Aim: WAP Implement CPU scheduling using First come First serve (FCFS)

Theory

FCFS: It is a scheduling system that only sees the arival order of each process & Evaluates each process & then goes to the next process

Burst time: The time required by the progen CPU

Waiting Time: The time each process needs to wait before running

Turn Around Time: The time ~~needed~~ from the process needed from entering to finishing

~~Code~~

Output

Number of process: 2

Enter Burst Time:

5

5

Sno.	Burst Time	Waiting Time	Turn Around Time
1	5	0	5
2	5	5	10

Avg Turn Around 6.0

Avg Wait Time 2.0

21/11/23

CODE

```
class Process():
    def __init__(self, burstTime):
        self.burstTime = burstTime
        self.waitingTime = 0
        self.turnAroundTime = 0

def evaluate(process):
    time = 0
    for i in range(len(proces)):
        if i != 0:
            process[i].waitTime = time
        process[i].turnAroundTime = process[i].waitTime +
                                    process[i].burstTime
        time = time + process[i].burstTime

def display(processes):
    print("Sno. BrustTime WaitingTime TurnAroundTime")
    a = 0
    for proces in processes:
        a = a+1
        print("{}\t{}\t{}\t\t{}".format(a, proces.burstTime,
                                        proces.waitTime,
                                        proces.TurnAroundTi

def avgTTWT(processes):
    avgwt = 0
    avgtt = 0
    for process in processes:
        avgwt = avgwt + process.waitTime
        avgtt = avgtt + process.TurnAroundTime
    print("Avg WT: {} \n Avg TT: {} ")

if __name__ : "__main__":
    print("Enter number of process :").
    number = int(input());
    processes = []
    for i in range(number):
        processes.append(Process(int(input())))
    evaluate(processes)
    display(process)
    avgTTWT(process
```