

Assignment no 2

Que no 1

Solution

Assignment no:-2

Part A

What is

- echo "Hello, World!"

→ The command echo prints the string "Hello, World!"

- touch file.txt

→ The command touch create the file.

- rm file.txt

→ The command rm -d

- ls -a

→ ~~all~~ ls will list all files & directories in your home directory including hidden ones

- cp file1.txt file2.txt

→ Copy the file from one file to another.

- mv file.txt /path/to/directory

→ mv: The command used to move or rename files & ~~directories~~ directories.

/path/directory: The destination directory where you want to move the file

- kill PID
 - kill requests a graceful termination of the process
- ls -l | grep ".txt"
 - list files in the current directory
 - l : pipes the output of the ls -l
 - grep.txt : Filters the output to show
- cat file1.txt file2.txt | sort | uniq
 - cat Command will used to - combines content of file.
 - sort arranges the combined lines in order
 - uniq -d filters out & shows only the duplicate lines.
- chmod 644 file.txt
 - 6 is equivalent to 'rw' - (read & write)
 - 4 is equivalent to 'r' - (read only)
- ls -l | grep ".txt"
 - list files in directories
- echo \$PATH

Part B

1. ~~ls~~ ls is used to list files and directories in a directory
→ True

2. mv is used to move files and directories.
→ True

3. cp is used to copy files and directories
→ False

4. Pwd stands for print Working directory
→ True

5. grep is used to patterns in Files
→ True

6. rm -rf file.txt deletes a File forcefully without Confirmation.
→ True

Identify the Incorrect command

1. chmodx
→ chmod is used to change file

2. CPY
CP is to copy files & directories

3. Mkfile
touch is used to create a new file

4. catx
is used to concatenate files

5. rn
is used to rename files

Part D :

cdac@DESKTOP-7R4VJ9O: ~

To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

Welcome to Ubuntu 22.04.3 LTS (GNU/Linux 5.15.153.1-microsoft-standard-WSL2 x86_64)

- * Documentation: <https://help.ubuntu.com>
- * Management: <https://landscape.canonical.com>
- * Support: <https://ubuntu.com/advantage>

This message is shown once a day. To disable it please create the
/home/cdac/.hushlogin file.

cdac@DESKTOP-7R4VJ9O:~\$ nano c4

cdac@DESKTOP-7R4VJ9O:~\$ nanoc5

Command 'nanoc5' not found, did you mean:

command 'nanoc' from deb nanoc (4.12.5-3ubuntu1)

Try: sudo apt install <deb name>

cdac@DESKTOP-7R4VJ9O:~\$ nano c5

cdac@DESKTOP-7R4VJ9O:~\$ bash c5

The sum of 5 and 2 is: 7

cdac@DESKTOP-7R4VJ9O:~\$ nano5

Command 'nano5' not found, did you mean:

command 'nano' from snap nano (7.2+pkg-4057)

command 'nanoc' from deb nanoc (4.12.5-3ubuntu1)

command 'nano' from deb nano (6.2-1)

See 'snap info <snapname>' for additional versions.

cdac@DESKTOP-7R4VJ9O:~\$ nano c5

cdac@DESKTOP-7R4VJ9O:~\$ nano c6

cdac@DESKTOP-7R4VJ9O:~\$ chmod +x check_even_odd.sh

chmod: cannot access 'check_even_odd.sh': No such file or directory

cdac@DESKTOP-7R4VJ9O:~\$ bash c6

Enter the number

2 3 4 5 6 7 8 9

c6: line 7: syntax error: unexpected end of file

cdac@DESKTOP-7R4VJ9O:~\$ nano c6

cdac@DESKTOP-7R4VJ9O:~\$ bash c6

Enter the number

2

The 2 is even

cdac@DESKTOP-7R4VJ9O:~\$ nano c6

cdac@DESKTOP-7R4VJ9O:~\$ nano c7

cdac@DESKTOP-7R4VJ9O:~\$ bash c7

1

cdac@DESKTOP-7R4VJ90: ~

```
cdac@DESKTOP-7R4VJ90:~$ nano c8
cdac@DESKTOP-7R4VJ90:~$ bash c8
c8: line 2: [0: command not found
cdac@DESKTOP-7R4VJ90:~$ nano c8
cdac@DESKTOP-7R4VJ90:~$ bash c8
c8: line 2: [1: command not found
cdac@DESKTOP-7R4VJ90:~$ nano c8
cdac@DESKTOP-7R4VJ90:~$ bash c8
c8: line 2: [1: command not found
cdac@DESKTOP-7R4VJ90:~$ nano c8
cdac@DESKTOP-7R4VJ90:~$ bash c8
0
1
2
3
4
cdac@DESKTOP-7R4VJ90:~$ nano c8
cdac@DESKTOP-7R4VJ90:~$ bash c8
1
2
3
4
cdac@DESKTOP-7R4VJ90:~$ nano c8
cdac@DESKTOP-7R4VJ90:~$ bash c8
1
2
3
4
5
cdac@DESKTOP-7R4VJ90:~$ nano c9
cdac@DESKTOP-7R4VJ90:~$ bash c9
c9: line 3: syntax error near unexpected token `else'
c9: line 3: `else '
cdac@DESKTOP-7R4VJ90:~$ nano c9
cdac@DESKTOP-7R4VJ90:~$ bash c9
c9: line 3: syntax error near unexpected token `else'
c9: line 3: `else '
cdac@DESKTOP-7R4VJ90:~$ nano c9
cdac@DESKTOP-7R4VJ90:~$ bash c9
File exists
cdac@DESKTOP-7R4VJ90:~$
```

cdac@DESKTOP-7R4VJ90: ~

To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

cdac@DESKTOP-7R4VJ90:~\$ nano c10

cdac@DESKTOP-7R4VJ90:~\$ bash c10

Enter a number:

2

The number is not greater than 10.

cdac@DESKTOP-7R4VJ90:~\$ nano c11

cdac@DESKTOP-7R4VJ90:~\$ nano bash11

cdac@DESKTOP-7R4VJ90:~\$ bash c11

Multiplication Table (1 to 5):

```
-----  
  1  2  3  4  5  
  2  4  6  8 10  
  3  6  9 12 15  
  4  8 12 16 20  
  5 10 15 20 25
```

cdac@DESKTOP-7R4VJ90:~\$

Part E:

Part E

Page No.	
Date	

Que1 FCFS :-

Process	Arrival time	Burst time	C.T	WT	TAT
P ₁	0	5	5	0	5
P ₂	1	3	8	4	7
P ₃	2	6	14	6	12
				$\frac{10}{3} = 3.33$	

Gantt chart



$$\text{Sum of WT} = 10$$

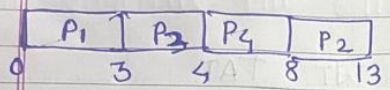
$$\text{No. of Process} = 3$$

$$\frac{10}{3} = 3.33$$

Que.2 SJF :-

Process	Arrival time	Burst time	C.T	WT	TAT
P ₁	0	3	3	0	3
P ₂	1	5	13	7	12
P ₃	2	1	4	1	2
P ₄	3	4	8	1	5
				$\frac{9}{3} = 3$	

Gantt chart



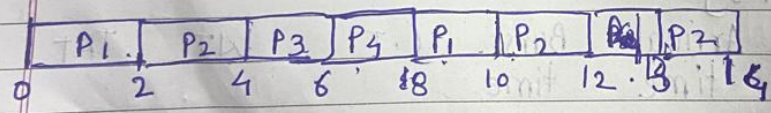
$$\text{Avg. Wt} = \frac{\text{Sum of W.T}}{\text{No. of process}} = \frac{9}{4} = 2.25$$

$$\text{Avg. TAT} = \frac{20}{4} = 5.5$$

Que. 4 Round Robin.

Process	AT	B.T	C.T	W.T	TAT
P ₁	0	4.2	10	6	10
P ₂	1	5.3	14	8	13
P ₃	2	2.0	6	2	4
P ₄	3	3.1	13	7	10
					$\frac{20}{4} = 5$

Gantt chart



$$\text{Avg. Wt} = \frac{\text{Sum of W.T}}{\text{No. of process}} = \frac{23}{4} = 5.75$$

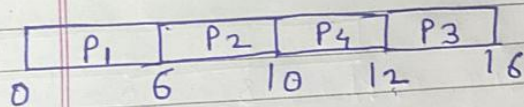
$$\text{Avg Turn around time} = \frac{10+13+4+10}{4} = 9.25$$

Que.3

Process priority AT BT CT TAT WT

P ₁	3	0	6	6	6	0
P ₂	1	1	4	10	9	5
P ₃	4	2	7	16	14	7
P ₄	2	3	2	12	9	7

Gantt chart



$$\text{Avg W.T} = \frac{0+5+7+7}{4} = \frac{19}{4} = 4.75$$