EX. NO : 03 WRITE SHELL SCRIPT TO SHOW DATE: 06.02.23 VARIOUS SYSTEM CONFIGURATION LA convently logged user and login name current shell Home directory operating system type current path setting current working directory Number of users wurntly logged Shell script the exps. sh echo "currently logged user" who echo 'current login name' users. echo " current shell" echo & SHELL echo " Home directory" echo & HOME echo "operating system type" uname echo "current path setting" echo & PATH echo " warend, working directory " echo "Number of user werently

users I we - w

output : bach, exps sh student: 0 2023-02-07 08:53(10) current login name current shell 1 bin 1 bash Home directory / home | grudent operating system type LINUX current path setting ler 1 wal 1 sbin / local / bin : / war / sbin : / wer/ bin: lur /game: /usr/ wal /games: /snap/bin of usr [local [an - all Inow - 2 35] bin [wer] 1 ocal | no - all | now - 2.35 | te (8 - 5 10) unin | us 1 local 1 ns -all / none - 2.35 / + 16. 8-5.10/ unix: lns-2.35: 1 nam -1.15. correct working diretory: I home I student la ocsR182 Number of users currently logged in 120/2/2 he shell , swipt to show RESULT :

various contigurations of a synstem has been executed successfully.

Out put bash enp 4.8h 1) as and version recease number, Ironal Linux ITP- cc2 - 38 5.11.0-43- generic # 41~ au. o4. a - ubuntu SMP Mon Dec 13 11:06:56 ac doal x 36-64 x 86-64 x 86-64 anu Linux. 2) All available shells volid login snells. raft many this praga Ibin Ish /bin / bash /ws/bin/bash 1 bin / r bach Ibin Idash 1 bin | dash

1 usr | bin | dash

2) computer upu Info vike processor type, Architecture: x8 6-64 Architecture: x8 6-64

cpu op-modes: 32-bit, 64 bit Byte order: Little Endian Address size: 199 bits physical, 48 bits cpu (9) : 16 vender 10 : cremine Intel UPU Jamily : 6. 234 Model: 165 Model Name: Intel (R) were (TN) 17-10700 LPU @ a -90 4H2

Ex. No: 04 Write Shell script to show Date: 20/02/23 various system configuration

as and version, release number, kernel version .

All available snells.

computer upu information like processor type, speed etc ...

Memory information

Harddisk information like, size of hard disk. eache memory, model etc. File system (mounted).

Shell script file

enp 4. Sh echo " 1> os and version, recease number

while the house o've

hernel number "

echo " a) all available shelle "

cat letc (snells

echo "3 > computer CPU into processor type, speed etc" cat (pooc (apuinto (or)

LACPU

(hat meast) more you will sh echo "4) Homory Information

cat | proc | memintos

echo '5> Hoad disk into like size of noud disk, cache memory model etc"

sudo letu - class disk (or)

hwinto - - disk Vor

stepping :5 CPUNH3 : 2900.0000 CPO Max MH3 : 4800 . 6000 CTU Min NH3 : 800.0000 4) Memory Information Mem Total: 1915 9 20 KB Mem Free : 4514018 KB Nem 4 Available: 6120088 kB Buffers: 81560 KB cached: 1947964 KB Active : 890004 HB Inactive : 1969 404 5) Hard disk information like size of hard disk cache memory, model etc. Esudo J password for student: * namespace. " " distant has so 21 " description: NVME name space physical id: 1 logical name: Iden / nrmeon 1 Size: 476 418 (512 48) capabilities: gpt -1.00 partitioned configuration: guid = 5f sted 6f-fc69-Ac1apartitioned : gpt b8 cb - 7 de ale 64 d 171e logical sector size = 51a sectors i 2e = 518. A file system (Mounted) Bysts 1845 & ysts rw, nowid, noder, noexec, relatime ou proc (proc proc rw, nosuid, nodev, noexec , relatine on uder Ider dertits rw i nosuid i noene cirelatime, size = 89 2524 nr-laodes = 981306 , mode = 755, inode 6400

echo file system (Mounted)" cat / proc/mounts 1 Page transferred wash walled 1014 for week 125 3 11. 4 collection 7.10 1 1 COTA 1 . 10 3 3 Track. 1 1 3 " nithus E . 10 11111 T. · ** 1742 Suc 4949 + - 4010, 46 that recentered among arrival TUSA PVIE Thus the shell genipt to show various Result configuration have been executed successfully

	EN. NO: 0		enform sim			(1)
7			U			
١	File ->	enps. ta		. 0.0	Age	year
1	Rollno	Name	Department	CAPA		
	,	Prun	17	9.2	20	3
	2	pravird	CSE	9.4	18	
1	3	Ram	CSE	9.6	20	3
1	4	Ritnika	71	9.7	20	3
	5	si va	ELF	9	19	2
	Ь	Ravi	ELE	9.1	21	4
	7	aokul	ECE	8.9	18	1
	8	sudha	EEE	4.8	21	4
	٩	Riya	CSE	9.4	20	3
	10	Sam	17	9.7	18	1
	awk	440 -	enpsp. awk			
					adonts	
1)			ails of all	the st	eloce in s	
	2 print	- 3				
	outpu					
7	>> .au	ok - fen	pp. awk	enps.tm	Tcom	
	Rollno	Name	Department	COLPA	Age	year
	1	Arun	17	9.3	20	3
	3	Aravird	CIE /	9.4	18	1
	4	Ram Rithica	CIE	9.6	70	3
	5	siva	FLE	9.7	20	3
	6	Ravi	ECE	9	19	2
	7	Crokul	FEE	9.1	21	4
	8	'ed ha'	III EEB	8.9	18	1
	9	Piya	CSE	9.4	20	1
	10	Sam	17	9.4	18	3

of print the student name and department alone E print \$2 "14" \$33 ATTEMPT TO A TOTAL output Name Department pron 1 to 17 mandaged and CJE Apriled CSE Rithilea Siva ELE EE E Pavi Crokul GCE sud to EEE Riya CSE 1 Sam a) print The students details who are belonging to UE dept. {i+ (\$3 = = "CSE") print } ASSISTANCE output 2 Aravind CSE 9.4 181 3 Ram (SE 9.6 20 3 9.1 20 3 Py CSE 4. print the student details who are belonging to 2nd year {i+ (\$6==2) print } Tex Calons ! output 5 siva FLE 9 19 5 siva FLE the think as to

the student details who capa is ? it (\$4 >= 9.3) print 3 output Age you CORPA Department Name Rollno 9.9 18. CJE pravird 2 9.6 3 CSE Ram 20 9.7 Rithilea 17 20 9.4 Riy 9 CSE 20 10 17 sam 9.7 18 who are belonging the student name to it depostment and in 3rd git (\$3 == " IT" 22 \$6 == 3) print \$11 output what I have " Arun Rithilta print the student details who are belonging to USE ON IT department {i+ (\$3 = = "IT" | | \$3 = = 'CSE') print? output hrun 9.2 2 Aroning CSE 9.4 3 Dom CSE 9.6 20 3 4 Pithika, IT 9.7 20 3 Piye 9.4 CSE 20 Sam LT 18 9.7

8. count the number of students in the input file 1 1 2 1 may 7 1110 34 BEAIN & C = 03 8c = c+13 END & print "count is" (-13, output count is lo Display the number of students in ECE 9. dept. 19 mus 199 BECHIN & C = 03 q'it (13 = = "E(E") { c = c+1} } END & print "Number of students in ECE Department is 1 c? output Number of student in ECE dept is 1 10. Find the sum of CGPA of all Studen to BEUIN { sum = 0} { sum = sum + \$43 END & print. " sum of apa is " sum? Sum of Capp is 93.7 12 Later Charles Made 1 2 1 13

11. Find the average corps of CST student BEAIN { sum = 0; c=0} { i+ (\$ 3 = = "cse") " " " " Jum = sum + \$4" 17/19 " cur C = C+1 at it trains END Eprint "Avoiage capa of ISF students is sum 103 10-57 1100 11 Average COPA of USE Students is 9.4667 S mantage ger type to both someone to whomay Van 2 1915 93 Andrew were Result Thus the simple tent processing using AWK Mere performed and do mede eneuted successfully.