**INHA UNIVERSITY TASHKENT**

**DEPARTMENT OF CSE & ICE**

**FALL SEMESTER 2017**

**SOC 3010 - OPERATING SYSTEM**

**HOME ASSIGNMENT 1**

**Submitted by**

**Student Names Student ID**

**Group : Junior**



**INSTRUCTIONS :**

**- All Home assignments are to be completed in groups**

**- Screen shots are to be provided wherever necessary**

**- Home Assignment Report should be prepared using this Template provided**

**- One Hard Copy of the Home Assignment of each group should be handed in at the office by the Group Leader.**

**- Every member of the team must upload the softcopy of the report at the E-Class portal**

**- Last date for submission of the Home Assignment is 10th October 2017**

**- Late submissions are not entertained, Adhere to the deadline strictly**

**- READ THE QUESTIONS CORRECTLY & CAREFULLY**

2 A)

1. *PS1 (Prompt String 1) is one of the prompts available in Linux/Unix. When you try to login to any machine, you have to enter user name and password. Once you are done with this you are presented with some info like who logged in, on what machine he logged in, what is his present working directory and if the logged in user is a super user or a normal user. This is done by using PS1 prompt which is a*[*inbuilt shell variable*](http://www.linuxnix.com/2011/08/linux-shell-inbuild-variables-system-admin.html)*.*

*d- the date in “Weekday Month Date” format*

*t- current time in 24 hour HH:MM:SS format*

*u – username of current user*

*# - the command number of this command*

*@ - the current time in 12 hour am/pm*

*$ if the effective UID is 0, a #, otherwise a $*

*\ - a backslash*

*h – host name up to the first*

*PICTURE 2A.1*

1. *This command shows all files and folders with their date of creation in decreasing order*

*PICTURE 2A.2*

1. *This command shows all files and folders with their date of creating in increasing order*

*PICTURE 2A.3*

1. *List information about the FILES (the current directory by default).*

*Shows list of commands with ls*

*PICTURE 2A.4*

1. *This command increase ID of user. See picture…….*

*PICTURE 2A.5*

1. *This command helps us connect files. In this case connect to computer’s information.*

*PICTURE 2A.6*

1. *Print system information. uname –r print kernel release*

*PICTURE 2A.7*

1. *Print system information. uname –a print all information, in the following order, except omit –p and –I if unknown*

*PICTURE 2A.8*

1. *Print system information. uname –n print the network node hostname*

*PICTURE 2A.9*

1. *Print system information. uname –o print the operating system*

*PICTURE 2A.10*

1. *Print system information. uname –p print the processor type*

*PICTURE 2A.11*

1. *This command prints processor type*

*PICTURE 2A.12*

1. *Change file timestamps*

*PICTURE 2A.13*

1. List directory contents use a long listing format

PICTURE 2A.14

1. This command changes the file mode bits of each given file according to mode, which can be either a symbolic representation of changes to make, or an octal number representing the bit pattern for the new mode bits.

PICTURE 2A.15

1. List directory contents use a long listing format

PICTURE 2A.16

1. This command concatenate files and print on the standard output.

PICTURE 2A.17

1. GNU History Library. Many programs read input from the user a line at a time. The GNU History library is able to keep track of those lines, associate arbitrary data with each line, and utilize information from previous lines in composing new ones.

PICTURE 2A.18

1. Takes last 25 written inputs by user

PICTURE 2A.19

1. This command report file system disk space usage. Show information about the file system on which each FILE resides, or all file systems by default/

PICTURE 2A.20

1. This command report file system disk space usage. Show information about the file system on which each FILE resides, or all file systems by default. Print sizes in powers of 1024

PICTURE 2A.21

1. This command display Linux processes

PICTURE 2A.22

1. This command report a snapshot of the current processes.

PICTURE 2A.23

1. This command report a snapshot of all processes

PICTURE 2A.24

1. This command report a snapshot of all processes ordered by time

PICTURE 2A.25

1. This command shows all information about cpu. Address size, power management, cupid level and so on.

PICTURE 2A.26

1. This command shows all information about cpu. Address size, power management, cupid level and so on.

PICTURE 2A.27

1. This command shows characteristic of CPU. Processor, number of cores, model name, frequency and cache size.

PICTURE 2A.28

1. This command shows number of Processor

PICTURE 2A.29

1. This command shows number of core in processor

PICTURE 2A.30

1. This command open list of file.

PICTURE 2A.31

1. This command show number of processor

PICTURE 2A.32

1. This command shows all information about processor

PICTURE 2A.33

1. This command puts head position to tail

PICTURE 2A.34

1. This command gives last information or sentence of processor

PICTURE 2A.35

1. This command gives last 5 information about cpu

PICTURE 2A.36

1. This command puts last information to core4info

PICTURE 2A.37

1. This command shows information put in last example 37 into core4info

PICTURE 2A.38

1. This command shows information from core4info last 5 and previous information

PICTURE 2A.39

1. This command shows information about core number 0. Shows what kind of processes is going what flags is used

PICTURE 2A.40

1. This command shows all user files in alphabetical order

PICTURE 2A.41

1. This command shows info about listdir

PICTURE 2A.42

1. This command shows last 10 command typed by user in cmd

PICTURE 2A.43

1. Tell how long system in running

PICTURE 2A.44

1. Estimate file space usage

PICTURE 2A.45

1. This command show space used.

PICTURE 2A.46

1. This command shows size of files in increasing order

PICTURE 2A.47

1. This command shows size of files in decreasing order

PICTURE 2A.48

1. This command compress or expand files

PICTURE 2A.49

1. This command shows all information about files in root directory

PICTURE 2A.50

1. This command compress or expand files

PICTURE 2A.51

1. This command shows all information about files in root directory

PICTURE 2A.52

1. Create a compressed file where put cpu information

PICTURE 2A.53

1. This command shows detailed information of all files

PICTURE 2A.54

1. Create a zip file with cpu information

PICTURE 2A.55

1. Show cpu information

PICTURE 2A.56

1. Show information stored in cache

PICTURE 2A.57

1. This command show info of processor

PICTURE 2A.58

1. This command convert text files for printing.

PICTURE 2A.59

1. This command print lines matching pattern

PICTURE 2A.60

1. This command report file system space usage. Limit like listing to local file systems

PICTURE 2A.61

1. This command report file system space usage. Print sizes in powers of 1024

PICTURE 2A.62

1. This command show path from home directory

PICTURE 2A.63

1. This command saves value to a %rax register

PICTURE 2A.64

1. This command print saved value from a

PICTURE 2A.65

1. This command saves value 75 to b

PICTURE 2A.66

1. This command print value of b which was saved in previous example

PICTURE 2A.67

1. This command saves sum of values from a and b to c

PICTURE 2A.68

1. This command print sum of values 75+15+10 which is 100

PICTURE 2A.69

1. In this case sum of two values saved in D

PICTURE 2A.70

1. Shows sum of values

PICTURE 2A.71

1. Shows path to home directory

PICTURE 2A.72

1. This command search for file named linux in repository

PICTURE 2A.73

1. This command make ls as list

PICTURE 2A.74

1. Shows all file in home folder

PICTURE 2A.75

1. This command reverse line characterwise

PICTURE 2A.76

1. Shows all file in home folder

PICTURE 2A.77

1. This command reverse whole sentence

PICTURE 2A.78

1. Make links between lines

PICTURE 2A.79

1. Use a long listing format

PICTURE 2A.80

1. This command make symbolic links instead of hard links

PICTURE 2A.81

1. Change name of shell username

PICTURE 2A.82

1. This command shows all lists

PICTURE 2A.83

1. This command search list which start with word l

PICTURE 2A.84

1. Print all files from list1

PICTURE 2A.85

1. Print all files from list1

PICTURE 2A.86

1. Determines list type

PICTURE 2A.87

1. Determines list type

PICTURE 2A.88

1. Determine list type which is symbolic relation

PICTURE 2A.89

1. Determine file type which is directory