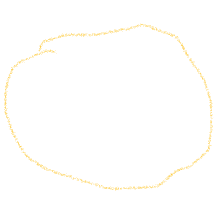
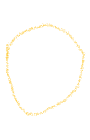
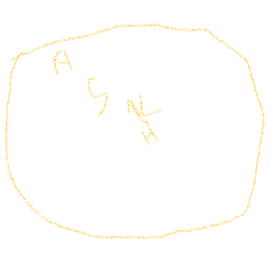
How linux machine works:



A= application , s= shell or interface to touch with user ( we cann say it as terminal) , k = kernel, H= hardware

Here , kernel will communicate with hardware , Application communicate with Shell

1. Get the name of shell prompt: echo $SHELL -- > /bin/bash
2. Shel scripting She-bang : The sign -- > #! Is called She-bang

To run our script in a certain shell write : She-bang/shell name -> #!/bin/bash

1. For comment use : #

Q: What Is shell scripting ?

Shell script consist of set of command which executes sequentially like file manipulation, program execution, user interaction, automation of task

How to make shelscript

1st: create directory and put script file into directoy … mkdir test , touch test1 , vi touch1 ,

2nd we need execute permission to execute provided script : chmod u+x touch1

U= user , x= executable

3rd do : ./touch1

Variable in shellscripting :

Var1 = hari

Var2=3

echo $var1 and $var2 output : hari and 3

if we want to put linux command in variable

variable1 = $(linux command)

host = $(hostname)

#how to take input from user

read : this function reads the name from user

read name - > it is the variable where users name get stored

echo hi $name -> this is pirnt the name of user

# if else condition in shell

read age

if[ $age -eq 18 ]

then

echo “you are good to vote”

else

echo “you are not good to vote”

fi

note: there should be always one space between command and [ ]

# switch case

echo a=find date

echo b = present working directory

echo c = all file in working directory

read choice

case $choice in

a ) date;;

b ) pwd;;

c ) ls -ltr

\*) echo invalid input

Esac

# for loop in

for num in 1 2 3 4

do

echo numers are : $num

done

#while loop

Count=0

num=10

while [ $count -le $num ]

do

echo numbers are : $count

let count++

done

note : let is used to apply the operation on variable . Here we are applying increment operation on variable count , so we have used let

#Iterate values from file

1st create file name -- > write few names in file

2nd: write script

Names=”sushi/documents/names/name”

for name in $(cat $names)

do

echo names are: $name

done

note: here cat command get all the values in cat and for loop iterate the throughly

#Types of operators used in shell

Equal to : -eq or == , greatherthanor equal to : -ge , lessthan or equal to : -le

Not equal : -ne or != , greaterthan : -gt , lessthan : lt