[1]-shell script
procedure:
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step 1:create .sh file
>>touch hello.sh

step 2:go into the .sh file:
>>gedit hello.sh

step 3:shell type declare into .sh file(good practice):
#!/bin/bash

step 4:write shell commands require:
example:
echo hello world

x=2

echo this is variable x : $x
cooment in shell script:

#(------)

```
|file permission:    |
| read(r)     |
| write(w)    |
| execute(x)    |
|      |
|   |---||---||---|  |
| d/-[file/folder] |owner||group||other| |
```

step 5:give permission if needed:
>>chmod +x hello.sh

step 6:run script file(.sh):

>>./hello.sh

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[1]-shell script format
[1]-execute a .sh file
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[2]-variable:

-system variable
all-capital letter
-user variable
all-small letter

system variable print:
echo $USER #user name
echo $PWD #current working dir

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echo $HOME #home directory
echo $BASH #shell name

name=mark
echo $name

-in variable declare space forbidden

x="hello"
y=hello

echo $x $y[variable declare works either way ]

types of echo in shell script:
 myvar=hello
 echo $myvar # print variable
 echo "$myvar" # print variable
 echo '$myvar' # print variable name only
 echo \$myvar # print variable name only

[3]-user input(read) in shell script:
read name
echo "my name is : " $name

message print before input:
 read -p 'enter your name : ' name
 echo "my name is : " $name

keep input hidden:
 read -p 'enter your name : ' name
 read -p 'enter your id : ' std_id
 read -p 'enter password : ' -s pass #-s for keep input hidden
 echo "my name is : " $name
 echo "student id : " $std_id
 echo "password : " $pass

if no variable decalre data can be store in system variable $REPLY:
 read -p "enter names : "
 echo "the value is : " $REPLY


[4]-array in shell script:
#names: max , john , mark

read -p "enter names : " -a names #-a for array
echo "names[0] :" ${names[0]} #${variable[position]}
echo "names[1] :" ${names[1]} #${variable[position]}
echo "names[2] :" ${names[2]} #${variable[position]}

[ ]-commad line argument in shell script[direct in command input]:
>>./hello.sh max jhon mark
echo "first cla variable : $1"
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 echo "second cla variable : $2"
 echo "third cla variable : $3"
 #echo "0 cla variable : $0" #shell script name stored

[5]-array in command input(command line argument):
 #./hello.sh max jhon mark
 #args={"max","jhon","mark"}
 #shell script array index starts from 0

 args=("$@")

 echo "first cla variable : ${args[0]}"
 echo "second cla variable : ${args[1]}"
 echo "third cla variable : ${args[2]}"

 echo "number of arguments : " $#

[6]-expression:
 #x=1+1 #x=2
 #y=21-2 #y19


 #expr :

 x=$(expr 1 + 1) #space between values & expression
 echo $x

 num1=20
 num2=5

 result=$(expr $num1 + $num2)
 echo $result

[7]-if else....
[8]-case
```