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procedure:
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
[1]-shell script format
[1]-execute a .sh file
[2]-variable:
     -system variable
          all-capital letter
     -user variable
          all-small letter
     system variable print:
          echo $USER #user name
          echo $PWD #current working dir
          echo $HOME #home directory
          echo $BASH #shell name
          name=mark
          echo $name
```

[1]-shell script

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-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"
     echo "second cla variable: $2"
     echo "third cla variable: $3"
     #echo "O cla variable: $0" #shell script name stored
[5]-array in command input(command line argument):
     #./hello.sh max jhon mark
     #args={"max","jhon","mark"}
     #shell script array index starts from 0
     args=("$@")
```

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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
```