\* Shell scripting -part 2 (lesson 16) \* Vaniable vim setup. sh (open file) used to stone data and can be referenced later. -> Simular to variables in general programming language. variable\_name = value file\_name=config.yaml reference the variable. echo using sile \$ sile\_name to configure something" vaniable\_name = \$ (command) Stose the output of a command in a variable. config\_files = \$ (Is config) echo " all the consiguration files: \$ config\_files" \* Conditional Statements (if -else statements) allows you to alter the control flow of the program - eg: execute a command only when a certain condition is true if [ condition] Statement Statement fi. if [ -d "consig"] echo "reading config directory contents"

```
config_files = $(ls config)
           else
              echo "config dir not found. Creating one"
              mkdir consig
* Basic operators
        check if it is a ordinary tile
              if [ -f "config.yams"]
           -r - if file is readable
           -w - if sile is writable
           -n - check if enecutable
           -S - Check if empty
              - check if file or directory emist
   number comparison
           num_files = xx
      relational operators.
           - works only for numeric valerle.
          if L num-files -eq 10 ]
              if num_sile is equal to 10.
           -It 10 - less than 10
          -gt 10 - greater than 10
          -ge 10 - greater than equal to 10.
          -le 10 - less than equal to 10.
          -ne 10 → not equal to 10.
    String operators.
         user_group = XX
         if [ user_group = = "yash"]
             echo "configure the server
         elif [user-group == "admin"
```

```
echo "administer the server"
          echo " no permission to consigure
                    the server".
   Passing arguments to a script
user_group = $1
          if [ "$user_group" = = "nana" ]
          echo
          elif [" $user_group = = "admin"]
          else
           echo
  · /setup admin
multiple parameters
       consig_dir = $1
        if [ -d "$config_dir"]
           echo " reading consig directory contents"
          config_files = $ (ls "$ config_dir")
       else
          echo "consig dir not found, creating one"
          mkdir "$ config_dir"
          touch "$ consig_dir/consig.sh"
      user_group = $2
      if [ "$user_group" == "yash"]
      then
```

```
echo
      elif ["$user_group" == "admin"]
     then
      echo
     el se
       echo
  · / setup · sh setup - scripts admin
                 paral paras
   Read user input
       #! /bin/bash
       echo "Reading user input"
       read -p "Please enter your
           password: " user_pud
      echo "Thanks for your password & user-pwd"
now we don't know how many parameters were
      usu specify | Don't know parameters.
     $ * > sepsesents all the arguments
           as a single string
        echo "all param $*"
       echo "user $1"
        echo "user $2"
       echo "all parameters: $#"
    $# - Total no of argumentos provided
Shell loop.
      - enables you to enecute a set of commando
        repeatedly.
     while, for , until , select loop.
 for loop.
        echo "all param $* "
        echo "number of params: $#"
for param in $*
```

```
echo $ param
          done
 While loop.
       run until Certain condition is matched
       eg- ping until service available
   while true
         read -p "enter a score: " score
        if [ "$score" = = "q" ]
        then
          break
        fi
       sum = $ (($ sum + $ score))
        echo "total sum: $sum"
BASH - complex syntan
 alternative better:
        python, ansible (consiguration toal)
```