1. For excuation always change file premision as xectaion Eg: chmod 777 or –x filename
2. To see shells list cat /etc/shells
3. To see what process is going on ps –ef
4. #! Called as shebang
5. To see it is command or keyword --- type –a ls //// type –a if
6. For color representation 0020

echo -e "\033[0;31m red"

echo -e "\033[0;32m Greeen"

echo -e "\033[0;33m yellow"

1. Use #comments for comment in script
2. Use \t for space in sentence and \v for vertical tab and for new line \n
3. For define variable

User define : 1)name=”Fahad” and for use echo “my name is $name”

2 ) work=program echo “I am {work}ing” /// echo “I am {work}${name}”

1. To see list of system define variable just type env
2. For user define echo ${name of userdifne variable in cap letter} eg echo ${SHELL} echo ${HOME} / echo ${OSTYPE} / echo $PATH {PPID}
3. Take input from user use read variable eg: read name echo “my name is ${name}”
4. To assign output to variable Shell eg: ls \n list=$(ls) \n echo “${list}”
5. Date command date +"%D-%T"
6. String manuplation ${string^} 🡪 for making first letter cap of sentence

{String^^} form making full sentence as cap

{string ,} for making first letter cap of small

{string,,} form making full sentence as small

{#string} for printing length of string

{string:0:3} print form 0 element to 3

{string#a\*c} from starting shortest match

{string#a\*\*c} from starting Longest match

{string%a\*c} from ending shortest match

{string%%a\*c} from ending longest match

{string/abc/xyz} replace abc from xyz

1. How to set default variable name-${name:-Fahad}
2. If variable not set command ${name :? Please set the variable value”}
3. Armathich operator eg = echo "$((a+b))"
4. Function : function install(){

echo "$((a+b))" }

install 🡪 for calling function

20. Function : function install(){ echo "configure ${1}" }

install “nginx” 🡪 for calling function

1. Echo $? 🡪 if O/p of this command is 0 the last command run successful if othe numer last command run unsuccessfully
2. If condition : if condition

Then condition or statement

If

Statement

22.number compration - -eq = equall to -gt = grather than -lt = less than

23. write if in [[…………]]

24. to debuge use bash –x file.sh

25. “$\*” consider as a single string “$@” consider as different string