ShellScript Questions & Answers

1)What is Shell?

Ans) Shell is an environment in which we can run our commands, programs, and shell scripts. There are different flavors of a shell, just as there are different flavors of operating systems. Each flavor of shell has its own set of recognized commands and functions.

2) How to check how many shells that Linux/Unix server will support?

Ans) cat /etc/shells

3) What are the different shell types?

### Ans) 1. Bash Shell

### 2. Tcsh/Csh Shell

### 3. Ksh Shell

### 4. Zsh Shell

### 5. Fish

### 4) How many types of comments does shell script support?

### Ans) Two types of comments will support

### Single line comments(#)

### Multi line comments(<<vasanth comments in multiple lines vasanth)

### 5) What is command line arguments?

### Ans) An argument, also called a command line argument, is a file name or other data that is provided to a command in order for the command to use it as an input. A command is an instruction telling a computer to do something, such as execute (i.e., run) a program.

### 6) Write down the syntax for if condition?

### Ans) if [ $a -gt 10 ]

### then

### -----------------

### -------------------

Else

-----------------

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fi

7) Write down the syntax for for loop?

Ans) for (( i=0;i<=5;i++ ))

do

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Done

8) Write down the syntax for function and write one function and call that function?

Ans) syntax) function(){

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----------(Commands)

}

Ex.) echo “fun calling”

Msg(){

echo “Today date is”

date

}

Msg

echo “function called”

9) What is the difference between > and >> and < and what is the standard output and standard error codes?

Ans) > Redirect the standard output to another file

>> Append the standard output to another file

< Standard input for another file

Erroe codes are 3 types

0---- > Standard Input

1---- > Standard Output

2---- > Standard Error

10) How to display one variable value?

Ans) echo $variable\_name

11) How many types of variables in Shell scripting?

Ans) 2 types of variables

1. System Defined Variables
2. User Defined Variables

12) Write some System defined variables?

Ans) $PWD,……………

13) What is String?

Ans) A character or group of characters enclosed with single or double quotes is nothing but String.

14) How to find the length of the given string?

Ans) mystr=”Hello vasanth”

echo ${#mystr} or echo $#mystr

#13

15) Write a shell script to accept the name from name and age from the user and display that back to the user.?

Ans)

16) Write a shell script to accept a file name from the user and make a copy of that file.

Ans)

1. Write a shell script to accept file name from the user and display the contents of file. If the file doesn't exist then try curbing the error and display a user friendly error to user.

Ans)

1. Write a shell script to accept a file name from user and check whether its an ordinary file or a directory. In case of file show the contents of file and if itís a directory show number of files in that directory.

Ans)

1. Write a shell script to accept a file name from user. Check whether file has all the permissions if not assign the respective permissions to that file.

Ans)

1. Write a shell script to accept a file name from the user and sort the file. If the file doesn’t exist curb the error message and show the user-friendly message.

Ans)

21)How can you run a shell script in debug mode?

Ans) sh –x filename(Hello.sh)

1. How to run a shell script in background?

Ans) nohup script.sh &

Or

Script &

Disown

1. How to send error logs and stdout logs in different files?

Ans) sh Hello.sh 2> HelloError.sh 1>Helloopt.log

1. How to run a script at boot level?

Ans) @reboot /path/to/app

1. Shellscript what are the predefined variables are there?

Ans) 1) System Defined variables

2) User Defined variables

1. How to declare a variable in a shell script?

Ans) name=vasanth

Id =12345

echo $name # vasanth

echo $id #12345

1. What is $?, $#, $\*

Ans) $? --🡪 provides command executing status

$# --🡪 Display no. of arguments

$\* --🡪 It gives all agguments as a single as a String

1. What is the command for status of last command execution or last command execution status in linux and what is the output of that command?

Ans)

1. What is the purpose of export command?

Ans) export- command is one of the bash shell BUILTINS commands, which means it is part of your shell. The export command is fairly simple to use as it has straightforward syntax with only three available command options.

-p --🡪 List of all names that are exported in the current shell

-n --🡪 Remove names from export list

-f --🡪 Names are exported as functions

1. How to read a command line input in shell script?

Ans) #!/bin/bash

echo “the first name is $1, 2nd name is $2, 3rd name is $3.”

./name.sh vasanth Prasad sunil