



#### Study on basics of shell programming

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Branch: CSE-IOT Section/Group: 1/A

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**Subject Name:** Operating System lab

Subject Code: CSP 210

#### 1. Aim/Overview of the practical:

Study on basics of shell programming

#### 2. Task to be done:

- 1. Open the linux terminal and name the script file.
- 2. Create a file using text editor.
- 3. Execute the script on linux terminal.

# 3. Commands & Explanations

- Step 1: Need to create a file using text editor. Eg: vi editor.
- Step 2: Name the script file with extension.sh (to save the file in shell)
- Step 3: Start the script #!/bin/sh
- Step 4: Write the code.
- Step 5: Save the script file with **filename.sh**

[Come back to terminal]

Step 6: for executing this script file type **bash filename.sh** 

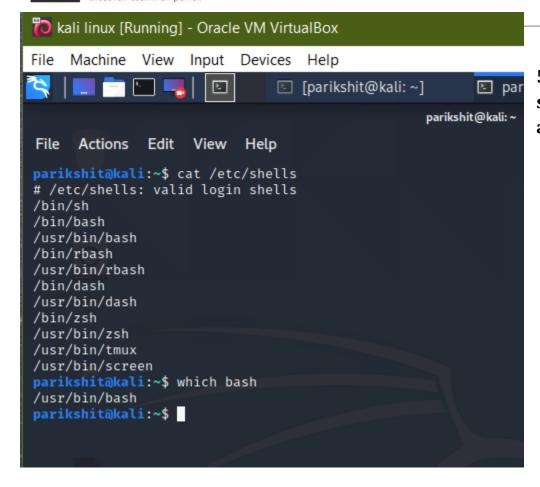
## 4. Command Syntax:

- 1. #!/bin/sh: to start the script.
- 2. **filename.sh**: to save the file.
- 3. bash filename.sh: to execute the script file.
- 4. **echo**: It is used to display the output on Linux terminal.
- 5. **read**: It is used to read the input entered by the user or capture the input.









5. Output: Image of sample output to be attached here

```
File Actions Edit View Help

parikshit@kali:~$ nano test.sh
parikshit@kali:~$ ./test.sh
bash: ./test.sh: Permission denied
parikshit@kali:~$ chmod 744 test.sh
parikshit@kali:~$ ./test.sh
hello worls
my name is parikshit
parikshit@kali:~$
```







```
File Actions Edit View Help

GNU nano 4.9.3

!!/bin/bash
echo "enter your name: "
read name
if test "$name" ="tommy"
then
echo "this is dog"
else
echo "this is not dog"
fi
```

```
parikshit@kali:~$ nano t.sh
parikshit@kali:~$ ./t.sh
enter your name:
abc
./t.sh: line 4: test: abc: unary operator expected
this is not dog
parikshit@kali:~$
```

### **Learning outcomes (What I have learnt):**

- **1.**OS is made of many components but two primarily components are:
- i) Kernel: Inner most part of OS and act as interface between user & hardware.
- ii) Shell: Outer most part of OS, it take input from user interact with script.
- **2.** Bourne shell is the shell which we are using in Linux. Prompt for this is \$ sign.
- **3.** Combining lengthy and repetitive command into file descriptor and further stored in a memory and perform when it is required.







- **4.** Shell scripting is made to help end user in reducing his efforts.
- **5.** In linux terminal echo command is used to display the output and read command to capture input.

# Evaluation Grid (To be created as per the SOP and Assessment guidelines by the faculty):

Sr. No.	Parameters	Marks Obtained	Maximum Marks
1.			
2.			
3.			

