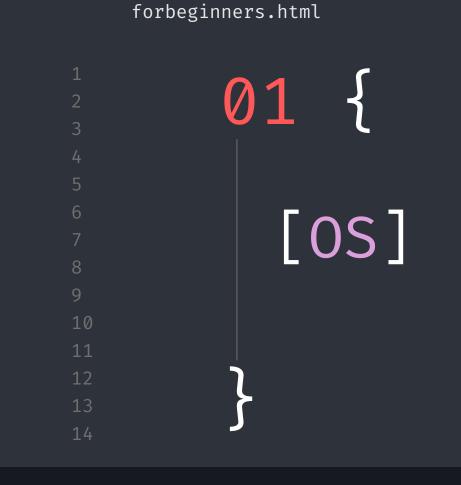
```
forbeginners.html
```

```
Linux 'OS' {
  [Summary and
  consolidation Workshop]
    < Presentation by Aria Shakoo
    Dr. Hamed Malek
    Fall 1403 >
```

```
'What will we see?';
  What is an OS
  Describing Linux OS
  What is UBUNTU?
  What is UBUNTU based on ?
  What is Shell?
  A review of Linux important commands
  Review of Bash script files
```

```
forbeginners.html
```





```
Concepts < /1 > {
            < OS : Is software that manages computer
            hardware and software resources, providing
            common services for computer programs. >
   Concepts < /2 > {
10
            < It acts as an intermediary between users and
           the computer hardware, ensuring efficient
            execution of tasks.>
```

```
Concepts < /3 > {
         < Ubuntu is a user-friendly Linux distribution
         based on Debian >
Concepts < /4 > {
         < Debian is a stable and secure Linux distribution
         composed entirely of free and open-source software,
         known for its robustness.>
```

```
Shell ; {
   /bin: Essential user commands (binaries) available for all users
   /boot: Files necessary for booting the system, including the
   linux kernel.
   /etc: Configuration files for the system and installed
   applications.
   /home: Userhome directories where personal files and settings
   are stored.
   /lib: Shared libraries required by system programs.
   /usr: User-related programs and files; generally larger
   applications and
   utilities
   /var: Variable data such as logs, mail, and temporary files
```

10



Linux

```
List of commands; {
                          pwd: Print working directory
                           2 cd: Change directory
                           3 ls: List files and directories
                              cp: Copy files
                           5 mv: Move files
                           6 rm: Remove file
                              touch: Create and empty file
                           8 mkdir: Create a directory
                           9 rmdir: Remove an empty directory
                           10 rm -r: Remove a directory with its contents
                           11 cat to view files
                           12 Nano: User-friendly command-line editor.
                           13 Vim: Advanced modal text editor for experienced
                              users.
                           14 Gedit: Graphical text editor for the GNOME
                              desktop.
```



```
Bash Script
files {
   You need to include
    #!/bin/bash
    at the start of the
    file!
```



```
forbeginners.html
```

```
How to save and run; {
              Save the script: nano script.sh
              Make it executable: chmod +x script.sh
              Run: ./script.sh
10
```

```
Definition of 'Parameters' {
   Variables are assigned using
   "without spaces"
     Reference variables
     with $
        Use expr or \$((\ ))
        for calculations
```

```
Condition expressions ; {
```

```
-eq equal
                     -ne not equal
                     -lt less than
                     -le less than equal to
                     -gt greater than
10
                     -ge greater than equal to
```

