



What is **Shell Script**



A **shell script** is a list of commands in a computer program that is run by the **Unix shell** which is a **command** line interpreter.

A **shell script** usually has comments that **describe** the steps.

The different operations performed by **shell scripts** are program execution, file manipulation and text printing.

Create your Shell Script File

A Shell Script file as `.sh` at the end of the file name.
Enter this command in the Terminal:

```
> cd <your_directory>
> touch helloWorld.sh          // create shell file, end with .sh
> chmod +x helloWorld.sh      // grant execution right to .sh file
```

Open `helloWorld.sh` file and add the following code:

```
#1 |#!/bin/bash
#2 |echo "Hello World!"
```

The first line of your shell script file **MUST** be `#!/bin/bash`

Run your first Shell Script

Type the following command in the Terminal:

You can run a Shell Script using different cmd:

```
> ./helloWorld.sh
```

Or

```
> sh helloWorld.sh
```

Or

```
> bash helloWorld.sh
```

They all work the same...

Add some color to the Terminal's Output

```
#1 | #!/bin/bash
#2 |
#3 | GREEN='\033[0;32m'
#4 | RED='\033[0;31m'
#5 | NC='\033[0m' # No Color
#6 |
#7 | echo -e "${GREEN}This is green${NC}"
#8 | echo -e "${RED}This is red${NC}"
```

Shell Script example



```
#!/bin/bash
```

```
echo "starting hdfs automatically"
```

```
# sudo apt-get update (change the password of your computer)
```

```
echo "DOING UPDATE FIRST"
```

```
sudo apt-get update << EOF
```

```
Welcome2BB
```

```
EOF
```

```
# start hdfs
```

```
echo "DOING SOURCE .BASH_PROFILE"
```

```
source .bash_profile
```

```
echo "DOING HDFS NAMENODE -FORMAT"
```

```
hdfs namenode -format << EOF
```

```
y
```

```
EOF
```

```
echo "STARTING ALL SH"
```

```
start-all.sh
```

```
# jps check
```

```
echo "JPS -- CHECKING JAVA PROCESS STATUS"
```

```
jps
```



```
while ( ! ( succeed = try() ) );
```