Bash Scripting Introduction to Bash Scripting

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Bash Scripting

- Shell: A command interpreter that enables you to interact with your computer
- Bash: 'Bourne-Again SHell' Default command interpreter on most GNU/Linux systems
- Scripting: Allows for an automatic commands execution that would otherwise be executed interactively one-by-one

Example: Shell Script

```
task.sh
#!/bin/bash
date
cal
pwd
ls
```

File Permission and chmod Command

- change the file execution, write and read permission for user, group and others
- To make the bash file executable for all users, use

```
chmod +x task.sh
chmod 777 task.sh
```

Comment

```
task.sh with comment
#!/bin/bash
# This is a simple shell script
date
cal
pwd
ls
```

Printing message

```
hello_world.sh

#!/bin/bash

# This is a simple shell script

echo "Hello World!!"

echo Hello World

echo " "

echo
```

Variables

- General variables
- Command Substitution
- Internal variable

Example: Illustration of variables

```
#!/bin/bash
greeting="Welcome"
user=$(whoami)
echo "$greeting back $user!"
echo "Your Bash shell version is: $BASH_VERSION. Enjoy!"s
```

Output

```
Welcome back indranilsaha!
Your Bash shell version is: 3.2.57(1)-release. Enjoy!
```

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