

Exercise no 6

Repeat last command

!! shows and executes last entered command.

```
subhashj@ignitarium-ThinkPad-L14-Gen-2:~$ echo bash shortcuts
bash shortcuts
subhashj@ignitarium-ThinkPad-L14-Gen-2:~$ !!
echo bash shortcuts
bash shortcuts
subhashj@ignitarium-ThinkPad-L14-Gen-2:~$ |
```

Repeat most recent command

!" character followed by keyword will instruct shell to search for a most recent command which starts with keyword.

```
subhashj@ignitarium-ThinkPad-L14-Gen-2:~$ !echo
echo bash shortcuts
bash shortcuts
subhashj@ignitarium-ThinkPad-L14-Gen-2:~$ |
```

All arguments of the last command

The `!*` shortcut will expand to all arguments used by the last command.

```
subhashj@ignitarium-ThinkPad-L14-Gen-2:~$ echo subhash babu
subhash babu
subhashj@ignitarium-ThinkPad-L14-Gen-2:~$ touch !*
touch subhash babu
subhashj@ignitarium-ThinkPad-L14-Gen-2:~$ ls
1.txt  babu  Documents  example  linux_shell  Pictures  snap  Subhash  subhash.sh  Videos
9.sh  Desktop  Downloads  example1  Music       Public   subhash  subhashbabu  Templates
subhashj@ignitarium-ThinkPad-L14-Gen-2:~$ |
```

First argument of last command

`!^` shortcut is used to reuse only the first argument of the last command.

```
subhashj@ignitarium-ThinkPad-L14-Gen-2:~$ echo subhash babu
subhash babu
subhashj@ignitarium-ThinkPad-L14-Gen-2:~$ touch !^
touch subhash
subhashj@ignitarium-ThinkPad-L14-Gen-2:~$ ls
1.txt  babu  Documents  example  linux_shell  Pictures  snap  Subhash  subhash.sh  Videos
9.sh  Desktop  Downloads  example1  Music       Public   subhash  subhashbabu  Templates
subhashj@ignitarium-ThinkPad-L14-Gen-2:~$ |
```

Last argument of last command

!\$ is used to reuse the last argument supplied to the previous argument

```
subhashj@ignitarium-ThinkPad-L14-Gen-2:~$ echo subhash babu
subhash babu
subhashj@ignitarium-ThinkPad-L14-Gen-2:~$ touch !$
touch babu
subhashj@ignitarium-ThinkPad-L14-Gen-2:~$ ls
1.txt  babu  Documents  example  linux_shell  Pictures  snap  Subhash  subhash.sh  Videos
9.sh  Desktop  Downloads  example1  Music       Public   subhash  subhashbabu  Templates
```

Quick command substitution

```
subhashj@ignitarium-ThinkPad-L14-Gen-2:~$ echo linux command line linux command line
linux command line linux command line
subhashj@ignitarium-ThinkPad-L14-Gen-2:~$ ^linux^bash^
echo bash command line linux command line
bash command line linux command line
subhashj@ignitarium-ThinkPad-L14-Gen-2:~$ |
```

The example above have substituted the first occurrence of the first occurrence of the keyword Linux with bash.

Execute nth command from history

```
subhashj@ignitarium-ThinkPad-L14-Gen-2:~$ history 20
1000 clear
1001 history 15
1002 cd :p
1003 ! -9
1004 history 15
1005 cle
1006 clear
1007 cd
1008 ls
1009 ls -l
1010 cd
1011 pwd
1012 clear
1013 history 6
1014 pwd :p
1015 clear
1016 history 6
1017 pwd :p
1018 clear
1019 history 20
subhashj@ignitarium-ThinkPad-L14-Gen-2:~$ |
```

bash shell keeps a track of all commands you have executed previously as a history. Each command in your bash history has its relevant number.

```
subhashj@ignitarium-ThinkPad-L14-Gen-2:~$ history 20
1000 clear
1001 history 15
1002 cd :p
1003 ! -9
1004 history 15
1005 cle
1006 clear
1007 cd
1008 ls
1009 ls -l
1010 cd
1011 pwd
1012 clear
1013 history 6
1014 pwd :p
1015 clear
1016 history 6
1017 pwd :p
1018 clear
1019 history 20
subhashj@ignitarium-ThinkPad-L14-Gen-2:~$ !1011
pwd
/home/subhashj
subhashj@ignitarium-ThinkPad-L14-Gen-2:~$ |
```