



# ABC IT Education

WE'LL TAKE YOU FROM ZERO TO HERO IN A SNAP

## Linux Systems Administration

### Homework 6

# Use your Home Centos for this Home work show the command that will answer each

Using the 'training' directory created in the last home work

## 1. Vi/Vim Practice

a) How many modes are there in vi/vim? Name them.

**vi/vim has 3 modes, command, insert and line modes**

b) What are the main navigation keys in vi/vim? Name each key with its direction.

**h ( left ), j ( down ), k ( up ) and l ( right )**

c) Using the file 'vipractice' which can be downloaded from <https://abciteducation.com/classfiles/>

i. How would you display the line numbers? **:set nu**

ii. What is the sequence of commands to copy line 3 and past it 5 times below line 3?

**move cursor to line 3, yy ( to yank the line ),  
while still on line 3 5p ( to paste line 5 times )**

# Use your Home Centos for this Home work show the command that will answer each

- iii. Change the word RATIONALE to Program Benefits, using one command.

Go to R, then cw, then type Program Benefits

- iv. How would you go to the last line from anywhere in the file?

:\$

- v. Open a blank line below line 6 and type the vowels A E I O U, 2 times, then undo what you just did.

Go to line 6, type lowercase O ( open a blank line below line 6 ), type A E I O U A E I O U, press the Esc key ( to get into command mode ), then u ( to undo command )

# Use your Home Centos for this Home work show the command that will answer each

2. File Manipulation and Archive/Compression (show commands used – Use training directory from previous HW)

a) Create a directory called hw6 in your 'training' directory.

```
$ mkdir hw6
```

b) Create 2 empty files hw6a and hw6b in your 'training' directory.

```
$ touch hw6a hw6b
```

c) Copy files hw6a and hw6b to the hw6 directory.

```
$ cp hw6a hw6b hw6
```

d) Display columns 1, 3, and 5 of the contents of /etc/passwd, then sort the output by field number 2.

```
$ cat /etc/passwd | cut -d: -f1,3,5 | sort -k 2
```

# Use your Home Centos for this Home work

## show the command that will answer each

- e) Tar and compress your entire training directory to any file of your choice and save the file in the /tmp directory.

```
$ tar zcf /tmp/training.tgz training
```

- f) Now if I want to see the contents of the file just put on /tmp, what command will I use?

```
$ tar ztf /tmp/training.tgz
```

- g) What is the size of your compressed tar file in Megabytes and in Gigabytes?

```
$ du -k /tmp/training.tgz
```