

Practical No. 06

Aim: Write any two Shell Script Programs in Vi editor.

Theory:

What is shell script?

- A shell script is a computer program designed to be run by the Unix shell, a command-line interpreter.
- The various dialects of shell scripts are said to be scripting languages.
- Typical operations performed by shell script include file manipulation, program execution and printing text.

What is Vi editor?

- Vi is a screen oriented, text editor originally created for UNIX operating system.
- Vi editor can be used for editing configuration files, create a grocery list, write a letter home to ask for money, create a new script or even to edit a source code.
- Syntax:

vi Filename

code: >\$vi add.sh

```
#!/bin/sh
```

```
echo -n "Enter first number: "
```

```
read a
```

```
echo -n "Enter second number: "
```

```
read b
```

```
c = `expr $a + $b`
```

```
echo "Sum $c"
```


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Aim: Write any two C programs in VI editor:

Output:

```
#include<stdio.h>
void main(){
printf("Hello World\n");
}
```

Code File: hello.c

```
pratyay@pratyay-ROG-Strix-G531GT:~/Study/IT-3rd-year-notes/6th Sem/Linux/75 vi hello.c
pratyay@pratyay-ROG-Strix-G531GT:~/Study/IT-3rd-year-notes/6th Sem/Linux/75 gcc hello.c
pratyay@pratyay-ROG-Strix-G531GT:~/Study/IT-3rd-year-notes/6th Sem/Linux/75 ./a.out
Hello World
```

Output: hello.c

```
#include<stdio.h>
void main(){
int age;
printf("Enter your age: ");
scanf("%d",&age);

if(age>18){
printf("Drink waterrrrr");
}else{
printf("Drink Milk");
}
```

Code: choices.c

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Aim: write any two C program in vi editor.

Theory:

In order to run C program in Linux using vi editor you will need a C program.
sudo apt install gcc.

Now, open terminal and do following:

- i) Open terminal and vi file name.c command.
- ii) To edit the file press 'i' key and write down the program.
- iii) To save the file, press esc button and type :wq:
:w - Save
:q - exit
:wq - save and exit.
- iv) To compile the cfile, type 'gcc filename.c'
- v) To run the C program, type './a.out'

Program:

hello.c

```
#include <stdio.h>
```

```
void main() {
```

```
    printf("Hello World");
```

```
}
```



```
pratyay@pratyay-ROG-Strix-G531GT: ~/Study/IT-3rd-year-notes/6th Sem/Linux/7$ gcc choices.c
pratyay@pratyay-ROG-Strix-G531GT: ~/Study/IT-3rd-year-notes/6th Sem/Linux/7$ ./a.out
Enter your age: 19
Drink waterrrrr
pratyay@pratyay-ROG-Strix-G531GT: ~/Study/IT-3rd-year-notes/6th Sem/Linux/7$ ./a.out
Enter your age: 9
Drink Milk
```

Output: Choices.c

Conclusion:

Hence, I used vi editor to develop and debug code and used gcc compiler to compile the code and executed it.

Program:

```
#include <stdio.h>
```

```
void main() {
```

```
    int age;
```

```
    printf("Enter your age: ");
```

```
    scanf("%d", &age);
```

```
    if (age > 18) {
```

```
        printf("Drink Water");
```

```
    } else {
```

```
        printf("Drink Milk");
```

```
    }
```

```
}
```

Conclusion:

Hence, I used vi editor to develop and ^{debug} ~~develop~~ files code and use gcc compiler to compile the code and executed it.