

```
vedang@vedang-Aspire-A715-75G: ~/Desktop/shell scripting
#!/bin/bash
counter=0
while [ $counter -lt 3 ]; do
    let counter+=1
    echo $counter
done
```

```
vedang@vedang-Aspire-A715-75G: ~/Desktop/shell scripting$ date
Monday 06 February 2023 03:13:48 AM IST
vedang@vedang-Aspire-A715-75G: ~/Desktop/shell scripting$ cal
    February 2023
Su Mo Tu We Th Fr Sa
                1  2  3  4
 5  6  7  8  9 10 11
12 13 14 15 16 17 18
19 20 21 22 23 24 25
26 27 28

vedang@vedang-Aspire-A715-75G: ~/Desktop/shell scripting$ pwd
/home/vedang/Desktop/shell scripting
vedang@vedang-Aspire-A715-75G: ~/Desktop/shell scripting$ ls
vedang@vedang-Aspire-A715-75G: ~/Desktop/shell scripting$ vi task.sh
vedang@vedang-Aspire-A715-75G: ~/Desktop/shell scripting$ chmod +x task.sh
vedang@vedang-Aspire-A715-75G: ~/Desktop/shell scripting$ ./task.sh
Monday 06 February 2023 03:16:28 AM IST
    February 2023
Su Mo Tu We Th Fr Sa
                1  2  3  4
 5  6  7  8  9 10 11
12 13 14 15 16 17 18
19 20 21 22 23 24 25
26 27 28

/home/vedang/Desktop/shell scripting
task.sh
vedang@vedang-Aspire-A715-75G: ~/Desktop/shell scripting$ a=4
vedang@vedang-Aspire-A715-75G: ~/Desktop/shell scripting$ b=5
vedang@vedang-Aspire-A715-75G: ~/Desktop/shell scripting$ echo $a
4
vedang@vedang-Aspire-A715-75G: ~/Desktop/shell scripting$ echo $b
5
vedang@vedang-Aspire-A715-75G: ~/Desktop/shell scripting$ echo ${a+$b}
9
vedang@vedang-Aspire-A715-75G: ~/Desktop/shell scripting$ array=(a,b,c)
vedang@vedang-Aspire-A715-75G: ~/Desktop/shell scripting$ echo ${array[*]}
{a,b,c}
vedang@vedang-Aspire-A715-75G: ~/Desktop/shell scripting$ echo ${#array[*]}
> 1
> ^C
vedang@vedang-Aspire-A715-75G: ~/Desktop/shell scripting$ echo ${#array[*]}
1
> ^C
vedang@vedang-Aspire-A715-75G: ~/Desktop/shell scripting$ nano array.sh
vedang@vedang-Aspire-A715-75G: ~/Desktop/shell scripting$ bash array.sh
bash: array.sh: No such file or directory
vedang@vedang-Aspire-A715-75G: ~/Desktop/shell scripting$ which bash
/usr/bin/bash
vedang@vedang-Aspire-A715-75G: ~/Desktop/shell scripting$ vi task.sh
vedang@vedang-Aspire-A715-75G: ~/Desktop/shell scripting$ ./task.sh
Monday 06 February 2023 03:39:45 AM IST
    February 2023
Su Mo Tu We Th Fr Sa
                1  2  3  4
```

```
vedang@vedang-Aspire-A715-75G: ~/Desktop/shell scripting
#!/bin/bash

num_a=100
num_b=200

if [ $num_a -lt $num_b ]; then
    echo "Snum_a is less than $num_b!"
else
    echo "Snum_a is greater than or equal to $num_b"
fi

"if_else.sh" 10L, 159B
```

```
vedang@vedang-Aspire-A715-75G: ~/Desktop/shell scripting
1
> ^C
vedang@vedang-Aspire-A715-75G: ~/Desktop/shell scripting$ nano array.sh
vedang@vedang-Aspire-A715-75G: ~/Desktop/shell scripting$ bash array.sh
bash: array.sh: No such file or directory
vedang@vedang-Aspire-A715-75G: ~/Desktop/shell scripting$ which bash
/usr/bin/bash
vedang@vedang-Aspire-A715-75G: ~/Desktop/shell scripting$ vi task.sh
vedang@vedang-Aspire-A715-75G: ~/Desktop/shell scripting$ ./task.sh
Monday 06 February 2023 03:39:45 AM IST
February 2023
Su Mo Tu We Th Fr Sa
          1  2  3  4
 5  6  7  8  9 10 11
12 13 14 15 16 17 18
19 20 21 22 23 24 25
26 27 28

/home/vedang/Desktop/shell scripting
task.sh
vedang@vedang-Aspire-A715-75G: ~/Desktop/shell scripting$ vi if_else.sh
vedang@vedang-Aspire-A715-75G: ~/Desktop/shell scripting$ ./if_else.sh
bash: ./if_else.sh: Permission denied
vedang@vedang-Aspire-A715-75G: ~/Desktop/shell scripting$ chmod +x if_else.sh
vedang@vedang-Aspire-A715-75G: ~/Desktop/shell scripting$ ./if_else.sh
./if_else.sh: line 6: [: missing `]'
100 is greater than or equal to 200
vedang@vedang-Aspire-A715-75G: ~/Desktop/shell scripting$ vi if_else.sh
vedang@vedang-Aspire-A715-75G: ~/Desktop/shell scripting$ ./if_else.sh
./if_else.sh: line 6: [: missing `]'
100 is greater than or equal to 200
vedang@vedang-Aspire-A715-75G: ~/Desktop/shell scripting$ vi if_else.sh
vedang@vedang-Aspire-A715-75G: ~/Desktop/shell scripting$ ./if_else.sh
100 is less than 200!
vedang@vedang-Aspire-A715-75G: ~/Desktop/shell scripting$ for i in 1,2,3 do echo $i;done
bash: syntax error near unexpected token `done'
vedang@vedang-Aspire-A715-75G: ~/Desktop/shell scripting$ for i in 1,2,3 do echo $i;
> ^C
vedang@vedang-Aspire-A715-75G: ~/Desktop/shell scripting$ for i in 1,2,3 do echo $i; done
bash: syntax error near unexpected token `done'
vedang@vedang-Aspire-A715-75G: ~/Desktop/shell scripting$ for i in 1,2,3; do echo $i; done
1,2,3
vedang@vedang-Aspire-A715-75G: ~/Desktop/shell scripting$ vi items.txt
vedang@vedang-Aspire-A715-75G: ~/Desktop/shell scripting$ cat items.txt
bash
scripting
tutorial
vedang@vedang-Aspire-A715-75G: ~/Desktop/shell scripting$ for i in $(cat items.txt);do echo -n $i | wc -c; done
WC: command not found
WC: command not found
WC: command not found
vedang@vedang-Aspire-A715-75G: ~/Desktop/shell scripting$ for i in $(cat items.txt);do echo -n $i | wc -c; done
4
9
```

```
vedang@vedang-Aspire-A715-75G: ~/Desktop/shell scripting
vedang@vedang-Aspire-A715-75G:~/Desktop/shell scripting$ cat items.txt
bash
scripting
tutorial
vedang@vedang-Aspire-A715-75G:~/Desktop/shell scripting$ for i in $(cat items.txt);do echo -n $i | WC -c; done
WC: command not found
WC: command not found
WC: command not found
vedang@vedang-Aspire-A715-75G:~/Desktop/shell scripting$ for i in $(cat items.txt);do echo -n $i | wc -c; done
4
9
8
vedang@vedang-Aspire-A715-75G:~/Desktop/shell scripting$ cat while.sh
cat: while.sh: No such file or directory
vedang@vedang-Aspire-A715-75G:~/Desktop/shell scripting$ cat while.sh
cat: while.sh: No such file or directory
vedang@vedang-Aspire-A715-75G:~/Desktop/shell scripting$ vi while.sh
vedang@vedang-Aspire-A715-75G:~/Desktop/shell scripting$ ./while.sh
bash: ./while.sh: Permission denied
vedang@vedang-Aspire-A715-75G:~/Desktop/shell scripting$ chmod +x while.sh
vedang@vedang-Aspire-A715-75G:~/Desktop/shell scripting$ ./while.sh
bash: ./while.sh: No such file or directory
vedang@vedang-Aspire-A715-75G:~/Desktop/shell scripting$ ./while.sh
./while.sh: line 3: syntax error near unexpected token `do'
./while.sh: line 3: `while[ $counter -lt 3 ];do'
vedang@vedang-Aspire-A715-75G:~/Desktop/shell scripting$ vi while.sh
vedang@vedang-Aspire-A715-75G:~/Desktop/shell scripting$ ./while.sh
./while.sh: line 3: syntax error near unexpected token `do'
./while.sh: line 3: `while[ $counter -lt 3 ];do'
vedang@vedang-Aspire-A715-75G:~/Desktop/shell scripting$ vi while.sh
vedang@vedang-Aspire-A715-75G:~/Desktop/shell scripting$ ./while.sh
./while.sh: line 3: syntax error near unexpected token `do'
./while.sh: line 3: `while[ $counter -lt 3 ];do'
vedang@vedang-Aspire-A715-75G:~/Desktop/shell scripting$ chmod +x while.sh
vedang@vedang-Aspire-A715-75G:~/Desktop/shell scripting$ ./while.sh
./while.sh: line 3: syntax error near unexpected token `do'
./while.sh: line 3: `while[ $counter -lt 3 ];do'
vedang@vedang-Aspire-A715-75G:~/Desktop/shell scripting$ vi while.sh
vedang@vedang-Aspire-A715-75G:~/Desktop/shell scripting$ ./while.sh
./while.sh: line 3: unexpected EOF while looking for matching `''
./while.sh: line 7: syntax error: unexpected end of file
vedang@vedang-Aspire-A715-75G:~/Desktop/shell scripting$ vi while.sh
vedang@vedang-Aspire-A715-75G:~/Desktop/shell scripting$ ./while.sh
./while.sh: line 3: [: command not found
vedang@vedang-Aspire-A715-75G:~/Desktop/shell scripting$ chmod +x while.sh
vedang@vedang-Aspire-A715-75G:~/Desktop/shell scripting$ ./while.sh
./while.sh: line 3: [: command not found
vedang@vedang-Aspire-A715-75G:~/Desktop/shell scripting$ vi while.sh
vedang@vedang-Aspire-A715-75G:~/Desktop/shell scripting$ vi tf_else.sh
2 files to edit
vedang@vedang-Aspire-A715-75G:~/Desktop/shell scripting$ vi tf_else.sh
vedang@vedang-Aspire-A715-75G:~/Desktop/shell scripting$

#!/bin/bash
counter=0
while [ $counter -lt 1 ]; do
    let counter+=1
    echo $counter
done

"while.sh" 6L, 88B

vedang@vedang-Aspire-A715-75G:~/Desktop/shell scripting$ ./while.sh
./while.sh: line 3: syntax error near unexpected token `do'
./while.sh: line 3: `while[ $counter -lt 3 ];do'
vedang@vedang-Aspire-A715-75G:~/Desktop/shell scripting$ vi while.sh
vedang@vedang-Aspire-A715-75G:~/Desktop/shell scripting$ ./while.sh
./while.sh: line 3: unexpected EOF while looking for matching `''
vedang@vedang-Aspire-A715-75G:~/Desktop/shell scripting$ vi while.sh
vedang@vedang-Aspire-A715-75G:~/Desktop/shell scripting$ ./while.sh
./while.sh: line 3: [: command not found
vedang@vedang-Aspire-A715-75G:~/Desktop/shell scripting$ chmod +x while.sh
vedang@vedang-Aspire-A715-75G:~/Desktop/shell scripting$ ./while.sh
./while.sh: line 3: [: command not found
vedang@vedang-Aspire-A715-75G:~/Desktop/shell scripting$ ./while.sh
./while.sh: line 3: [: command not found
vedang@vedang-Aspire-A715-75G:~/Desktop/shell scripting$ vi while.sh
vedang@vedang-Aspire-A715-75G:~/Desktop/shell scripting$ vi tf_else.sh
2 files to edit
vedang@vedang-Aspire-A715-75G:~/Desktop/shell scripting$ vi tf_else.sh
vedang@vedang-Aspire-A715-75G:~/Desktop/shell scripting$ vi while.sh
vedang@vedang-Aspire-A715-75G:~/Desktop/shell scripting$ chmod +x while.sh
vedang@vedang-Aspire-A715-75G:~/Desktop/shell scripting$ ./while.sh
1
2
3
vedang@vedang-Aspire-A715-75G:~/Desktop/shell scripting$ vi while.sh
vedang@vedang-Aspire-A715-75G:~/Desktop/shell scripting$
```