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Shell Script Assignment

```
vedant_2720@vedant-IdeaPad-5:~/Desktop$ mkdir Bash
vedant_2720@vedant-IdeaPad-5:~/Desktop$ cd Bash
vedant_2720@vedant-IdeaPad-5:~/Desktop/Bash$ echo 'echo all done' > hello.sh
vedant_2720@vedant-IdeaPad-5:~/Desktop/Bash$
vedant_2720@vedant-IdeaPad-5:~/Desktop/Bash$ hello.sh
hello.sh: command not found
vedant_2720@vedant-IdeaPad-5:~/Desktop/Bash$ bash hello.sh
all done
vedant_2720@vedant-IdeaPad-5:~/Desktop/Bash$ nano hello_nano.sh
vedant_2720@vedant-IdeaPad-5:~/Desktop/Bash$ chmod +x hello_nano.sh
vedant_2720@vedant-IdeaPad-5:~/Desktop/Bash$ ./hello_nano.sh
hello nano
another line
vedant_2720@vedant-IdeaPad-5:~/Desktop/Bash$ bash hello_nano.sh
hello nano
another line
vedant_2720@vedant-IdeaPad-5:~/Desktop/Bash$ cat x.sh
cat: x.sh: No such file or directory
vedant_2720@vedant-IdeaPad-5:~/Desktop/Bash$ cat>x.sh
#!/bin/bash
echo ${4} ${6} ${26}
^C
vedant_2720@vedant-IdeaPad-5:~/Desktop/Bash$ bash x.sh{A..Z}
bash: x.shA: No such file or directory
vedant_2720@vedant-IdeaPad-5:~/Desktop/Bash$ bash x.sh {A..Z}
D F Z
vedant_2720@vedant-IdeaPad-5:~/Desktop/Bash$ nano expands.sh
vedant_2720@vedant-IdeaPad-5:~/Desktop/Bash$ chmod +x expands.sh
vedant_2720@vedant-IdeaPad-5:~/Desktop/Bash$ ./expands.sh
```

```
vedant_2720@vedant-IdeaPad-5:~/Desktop/Bash$ bash expands.sh {A..Z}
A B C D E F G H I J K L M N O P Q R S T U V W X Y Z
26
26
0
vedant_2720@vedant-IdeaPad-5:~/Desktop/Bash$ bash expands.sh {A,B,D}
A B D
3
3
0
vedant_2720@vedant-IdeaPad-5:~/Desktop/Bash$ nano expands.sh
vedant_2720@vedant-IdeaPad-5:~/Desktop/Bash$ nano expands.sh
vedant_2720@vedant-IdeaPad-5:~/Desktop/Bash$ bash expands.sh {A,B,D}
A B D
3
3
0
_sily
vedant_2720@vedant-IdeaPad-5:~/Desktop/Bash$ cat>arthmetic.sh
#!/bin/bash
a=4
b=6
echo "before increment a and b"
echo $a
echo $b
echo "After increment a and b"
echo $a
echo $b
^C
vedant_2720@vedant-IdeaPad-5:~/Desktop/Bash$ arthmetic.sh
```

```
vedant_2720@vedant-IdeaPad-5:~/Desktop/Bash/function$ a=1
vedant_2720@vedant-IdeaPad-5:~/Desktop/Bash/function$ b=2
vedant_2720@vedant-IdeaPad-5:~/Desktop/Bash/function$ [$a -lt $b]^C
vedant_2720@vedant-IdeaPad-5:~/Desktop/Bash/function$ [$a -lt $b]
[1: command not found
vedant_2720@vedant-IdeaPad-5:~/Desktop/Bash/function$ [$a -1t $b]
[1: command not found
vedant_2720@vedant-IdeaPad-5:~/Desktop/Bash/function$ [$a -gt $b]
[1: command not found
vedant_2720@vedant-IdeaPad-5:~/Desktop/Bash/function$ [ $a -lt $b ]
vedant_2720@vedant-IdeaPad-5:~/Desktop/Bash/function$ echo $?
0
vedant_2720@vedant-IdeaPad-5:~/Desktop/Bash/function$ [ $a <t $b ]
bash: t: No such file or directory
vedant_2720@vedant-IdeaPad-5:~/Desktop/Bash/function$ [ $a lt $b ]
bash: [: lt: binary operator expected
vedant_2720@vedant-IdeaPad-5:~/Desktop/Bash/function$ [ $a -lt $b ]
vedant_2720@vedant-IdeaPad-5:~/Desktop/Bash/function$ echo $?
0
vedant_2720@vedant-IdeaPad-5:~/Desktop/Bash/function$ a=10
vedant_2720@vedant-IdeaPad-5:~/Desktop/Bash/function$ if ((a==10)):then echo yes;else echo no;
bash: syntax error near unexpected token `:then'
vedant_2720@vedant-IdeaPad-5:~/Desktop/Bash/function$ if ((a==10));then echo yes;else echo no;
> 5
> 2
> fi
yes
```

```
vedant_2720@vedant-IdeaPad-5:~/Desktop/Bash/function$ a=$((12+5))
vedant_2720@vedant-IdeaPad-5:~/Desktop/Bash/function$ echo $a
17
vedant_2720@vedant-IdeaPad-5:~/Desktop/Bash/function$ echo $((3*11))
33
vedant_2720@vedant-IdeaPad-5:~/Desktop/Bash/function$ x=10;y=22
vedant_2720@vedant-IdeaPad-5:~/Desktop/Bash/function$ $z=$(($x * $y))
=220: command not found
vedant_2720@vedant-IdeaPad-5:~/Desktop/Bash/function$ $z=$(($x*$y))
=220: command not found
vedant_2720@vedant-IdeaPad-5:~/Desktop/Bash/function$ z=$(($x*$y))
vedant_2720@vedant-IdeaPad-5:~/Desktop/Bash/function$ echo $z
220
vedant_2720@vedant-IdeaPad-5:~/Desktop/Bash/function$
```

```
vedant_2720@vedant-IdeaPad-5:~/Desktop/Bash$ arthmetic.sh
arthmetic.sh: command not found
vedant_2720@vedant-IdeaPad-5:~/Desktop/Bash$ bash arthmetic.sh
before increment a and b
4
6
After increment a and b
4
6
vedant_2720@vedant-IdeaPad-5:~/Desktop/Bash$ arthmetic.sh
arthmetic.sh: command not found
vedant_2720@vedant-IdeaPad-5:~/Desktop/Bash$ cat arthmetic.sh
#!/bin/bash
a=4
b=6
echo "before increment a and b"
echo $a
echo $b
echo "After increment a and b"
echo $a
echo $b
vedant_2720@vedant-IdeaPad-5:~/Desktop/Bash$ vim arthmetic.sh
vedant_2720@vedant-IdeaPad-5:~/Desktop/Bash$ bash arthmetic.sh
before increment a and b
4
6
After increment a and b
4
6
vedant_2720@vedant-IdeaPad-5:~/Desktop/Bash$ vim arthmetic.sh
```

```
vedant_2720@vedant-IdeaPad-5:~/Desktop/Bash$ vim arthmetic.sh
vedant_2720@vedant-IdeaPad-5:~/Desktop/Bash$ bash arthmetic.sh
before increment a and b
4
6
After increment a and b
4
6
5
5
vedant_2720@vedant-IdeaPad-5:~/Desktop/Bash$ vim arthmetic.sh
vedant_2720@vedant-IdeaPad-5:~/Desktop/Bash$ bash arthmetic.sh
before increment a and b
4
6
After increment a and b
5
arthmetic.sh: command substitution: line 10: syntax error near unexpected token `b'
arthmetic.sh: command substitution: line 10: `--(b))'
vedant_2720@vedant-IdeaPad-5:~/Desktop/Bash$ vim arthmetic.sh
vedant_2720@vedant-IdeaPad-5:~/Desktop/Bash$ bash arthmetic.sh
before increment a and b
4
6
After increment a and b
5
arthmetic.sh: line 9: unexpected EOF while looking for matching `)'
arthmetic.sh: line 14: syntax error: unexpected end of file
vedant_2720@vedant-IdeaPad-5:~/Desktop/Bash$ vim arthmetic.sh
vedant_2720@vedant-IdeaPad-5:~/Desktop/Bash$ bash arthmetic.sh
```

```
                                                          $ bash arthmetic.sh
before increment a and b
4
6
After increment a and b
5
arthmetic.sh: line 9: unexpected EOF while looking for matching `)'
arthmetic.sh: line 14: syntax error: unexpected end of file
vedant_2720@vedant-IdeaPad-5:~/Desktop/Bash$ vim arthmetic.sh
vedant_2720@vedant-IdeaPad-5:~/Desktop/Bash$ bash arthmetic.sh
before increment a and b
4
6
After increment a and b
5
5
vedant_2720@vedant-IdeaPad-5:~/Desktop/Bash$ cd function
vedant_2720@vedant-IdeaPad-5:~/Desktop/Bash/function$ cat>function.sh
function hello(){
echo "function working correctly"
echo "function call successful"
echo "hello"
}

hello
^C
vedant_2720@vedant-IdeaPad-5:~/Desktop/Bash/function$ bash function.sh
function working correctly
function call successful
hello
vedant_2720@vedant-IdeaPad-5:~/Desktop/Bash/function$ cd bash
```

```
vedant_2720@vedant-IdeaPad-5:~$ bash x.sh

echo "Hello world"
myname="Vedant"
mymis="112103154"
echo "My name is $myname"
echo "my mis is $mymis "
files=$(pwd)
echo "this will give the pwd:"
echo $files
time=$(date)
echo "Todays date is:" $time

echo "Given condition in the if else will come out true"
num=50
if [ $num -eq 50 ]
then
        echo "Condition is true"
fi

echo "loop 1 to 5"
a=1

while [ $a -le 5]
do
        echo $a
        a=$(( a +1 ))
        sleep 0.5
done
echo "While loop is now completed"
echo "T forloop counting from 1 to 5"

echo "Forloop is now completed"
for cur in {1 5}
do
        echo $cur
        sleep 0.5
done
```