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Bash Assignment

1)

```
ubuntu@77d2e6b99e1b5c6:~/bash_exercise/bash_if$ ls
ubuntu@77d2e6b99e1b5c6:~/bash_exercise/bash_if$ vi example1.sh
ubuntu@77d2e6b99e1b5c6:~/bash_exercise/bash_if$ chmod u+x example1.sh
ubuntu@77d2e6b99e1b5c6:~/bash_exercise/bash_if$ ./example1.sh
Enter number: 20
ubuntu@77d2e6b99e1b5c6:~/bash_exercise/bash_if$ vi example1.sh
ubuntu@77d2e6b99e1b5c6:~/bash_exercise/bash_if$ ./example1.sh
Enter number: 660
Value is greater than 125
ubuntu@77d2e6b99e1b5c6:~/bash_exercise/bash_if$ __
```

```
□□ ubuntu@77d2e6b99e1b5c6: ~/bash_exercise/bash_if

ubuntu@77d2e6b99e1b5c6: ~/bash_exercise/bash_if$ ./example2.sh

yourfile

false condition

ubuntu@77d2e6b99e1b5c6: ~/bash_exercise/bash_if$

□
```

```
wubuntu@77d2e6b99e1b5c6: ~/bash_exercise/bash_if
#!/bin/bash

if [ 8 -gt 6 ] && [ 10 -eq 10 ];
then
echo "Conditions are true"

fi

if [ "mylife" == "mylife" ] && [ 3 -gt 10 ];
then
echo "Conditions are false"

fi

ubuntu@77d2e6b99e1b5c6: ~/bash_exercise/bash_if$ vi example4.sh
ubuntu@77d2e6b99e1b5c6: ~/bash_exercise/bash_if$ chmod u+x example4.sh
ubuntu@77d2e6b99e1b5c6: ~/bash_exercise/bash_if$ ./example4.sh
Conditions are true
ubuntu@77d2e6b99e1b5c6: ~/bash_exercise/bash_if$ .
```

```
if [ "mylife" == "yourlife" ] || [ 3 -gt 10 ];
```

e1b5c6:~/bash_exercise/bash_if\$./example5.sh Condition is true. buntu@77d2e6b99e1b5c6:~/bash_exercise/bash_if\$

6)

```
■ ubuntu@77d2e6b99e1b5c6: ~/bash_exercise/bash_if
```

```
f [[ 8 -eq 8 && 8 -gt 10 || 9 -lt 5 ]];
```

buntu@77d2e6b99e1b5c6:~/bash_exercise/bash_if\$./example6.sh Condition is true

7)

```
ubuntu@77d2e6b99e1b5c6: ~/bash_exercise/bash_if
#Nested if statement
```

```
# ubuntu@77d2e6b99e1b5c6: ~/bash_exercise/bash_if_else
#!/bin/bash

if [ 10 -gt 3 ];
then
    echo "10 is greater than 3."
else
    echo "10 is not greater than 3."

fi

if [ 3 -gt 10 ];
then
    echo "3 is greater than 10."
else
    echo "3 is not greater than 10."

fi
```

```
ubuntu@77d2e6b99e1b5c6:~/bash_exercise/bash_if_else$ nano example1.sh
ubuntu@77d2e6b99e1b5c6:~/bash_exercise/bash_if_else$ vi example1.sh
ubuntu@77d2e6b99e1b5c6:~/bash_exercise/bash_if_else$ chmod a+x example1.sh
ubuntu@77d2e6b99e1b5c6:~/bash_exercise/bash_if_else$ ./example1.sh
10 is greater than 3.
3 is not greater than 10.
ubuntu@77d2e6b99e1b5c6:~/bash_exercise/bash_if_else$ __
```

9)

```
ubuntu@77d2e6b99e1b5c6: ~/bash_exercise/bash_if_else
al / bin/bash
if [[ 10 -gt 9 && 10 == 9 || 2 -lt 1 || 25 -gt 20 ]];
then
echo "Given condition is true."
else
echo "Given condition is false."
fi
if [[ 10 -gt 9 && 10 == 8 || 3 -gt 4 || 8 -gt 8 ]];
then
echo "Given condition is true."
else
echo "Given condition is true."
fi
echo "Given condition is not true."
fi
a.
```

```
ubuntu@77d2e6b99e1b5c6:~/bash_exercise/bash_if_else$ vi example1.sh
ubuntu@77d2e6b99e1b5c6:~/bash_exercise/bash_if_else$ nano example2.sh
ubuntu@77d2e6b99e1b5c6:~/bash_exercise/bash_if_else$ chmod a+x example2.sh
ubuntu@77d2e6b99e1b5c6:~/bash_exercise/bash_if_else$ ./example2.sh
Given condition is true.
Given condition is not true.
ubuntu@77d2e6b99e1b5c6:~/bash_exercise/bash_if_else$ __
```

10)

```
■ ubuntu@77d2e6b99e1b5c6: ~/bash_exercise/bash_if_else

#!/bin/bash

read -p "Enter a value:" value

if [ $value -gt 9 ];

then

echo "The value you typed is greater than 9.";

else

echo "The value you typed is not greater than 9.";

fi

~

ubuntu@77d2e6b99e1b5c6: ~/bash_exercise/bash_if_else$ vi example2.sh
ubuntu@77d2e6b99e1b5c6: ~/bash_exercise/bash_if_else$ nano example3.sh
ubuntu@77d2e6b99e1b5c6: ~/bash_exercise/bash_if_else$ chmod a+x example3.sh
ubuntu@77d2e6b99e1b5c6: ~/bash_exercise/bash_if_else$ ./example3.sh
Enter a value:30

The value you typed is greater than 9.
```

```
"ubuntu@77d2e6b99e1b5c6: ~/bash_exercise/bash_if_else
"i /bin/bash

fread -p "Enter a value:" value
if [ $value -gt 9 ];
then
    if [ $value -lt 11 ];
then
    echo "$value>9, $value<11"
else
    echo "The value you typed is greater than 9."
fi

else echo "The value you typed is not greater than 9."
fi

ubuntu@77d2e6b99e1b5c6: ~/bash_exercise/bash_if_else$ ./example4.sh
Enter a value:50
The value you typed is greater than 9.
ubuntu@77d2e6b99e1b5c6: ~/bash_exercise/bash_if_else$ ./example4.sh</pre>
```

12)

Enter a value:10 10>9, 10<11

```
ubuntu@77d2e6b99e1b5c6: ~/bash exercise
#1/bin/bash
x=8
y=2
echo "x=8, y=2"
echo "x=8, y=2"
echo "subraction of x & y"
echo $(( $x + $y))
echo "Subraction of x & y"
echo $(( $x - $y))
echo "Multiplication of x & y"
echo $(( $x * $y ))
echo "Divison of x by y"
echo $(( $x * $y ))
echo "Exponentiation of x,y"
echo $(( $x * * $y))
echo "Incrementing x by 5, then x= "
(( x * = 5))
echo $x
echo "Decrementing x by 5, then x="
(( x * = 5))
echo $x
echo "Dividing x by 5, x= "
(( x * = 5))
echo $x
echo "Remainder of dividing x by 5, x="
(( x * = 5))
echo $*
```

```
ubuntu@77d2e6b99e1b5c6:-/bash_exercise$ chmod u+x calculator.sh ubuntu@77d2e6b99e1b5c6:-/bash_exercise$ ./calculator.sh x=8, y=2 Addition of x & y
10 Subraction of x & y
16 Nultiplication of x & y
16 Divison of x by y
4 Exponentiation of x,y
64 Incrementing x by 5, then x= 13 Decrementing x by 5, then x= 13 Decrementing x by 5, then x= 13 Remainder of dividing x by 5, x= 3 ubuntu@77d2e6b99e1b5c6:-/bash_exercise$ ■
```

```
#1/bin/bash
#
x=10
y=6
z=0
echo "Addition"
let "z=$((x+y))"
echo "z=$z"
echo "Subraction"
let "z=$((x-y))"
echo "z=$z"
echo "Multiplication"
let "z=$((x*y))"
echo "z=$z"
echo "Divison"
let "z=$((x/y))"
echo "z=$z"
echo "Modular Division"
let "z=$((x%y))"
echo "z=$z"
let "x+=5"
echo "Incrementing x by 5, then x="
echo $x
let "x*=5"
echo "Decrementing x by 5, then x="
echo $x
let "x*=5"
echo "Dividing x by 5, x= "
echo $x
let "x/=5"
echo "Dividing x by 5, x= "
echo $x
let "x%=5"
echo "Remainder of Dividing x by 5, x="
echo $x
let "x%=5"
echo "Remainder of Dividing x by 5, x="
echo $x
```

```
ubuntu@77d2e6b99e1b5c6:~/bash_exercise$ chmod u+x calculator2.sh ubuntu@77d2e6b99e1b5c6:~/bash_exercise$ ./calculator2.sh
Addition
z=16
Subraction
z=4
Multiplication
z=60
Divison
z=1
Modular Division
z=4
Incrementing x by 5, then x=
Decrementing x by 5, then x=
Dividing x by 5, x=
15
Remainder of Dividing x by 5, x=
```