

vlp

Enter two number.

5

It is not even.

~~For~~
~~7/9/11/22~~LAB-

98/11/22

①

Write a shell program to find factorial of a number.

```

#!/bin/bash
Enter "The number to calculate factorial"
read n
fact=1
while [ $n -gt 1 ]
do
    fact=$((fact * n))
    n=$((n - 1))
done
echo $fact
$ sh fact.sh

```


output: Enter two numbers to calculate
4
24

2) Shell script to compute gross salary of an employee.

Given: [basic > hra 20% of basic
da 10% of basic]

Gross salary = Basic salary +
HRA + other allowance

\$ sh. gross.sh

echo "Find gross salary"

echo "Enter the basic salary"

read basic

hra = echo 0.2 * \$basic | bc

da = echo 0.1 * \$basic | bc

gross_sal = echo \$basic + \$hra + \$da | bc

echo "gross salary is: \$ gross_sal"

o/b:

Enter the basic salary

2000

Gross salary is 2600.0.

- 3) $C = 5/9 \cdot (F - 32)$
Write Shell script to find / Convert
temperature F to C.

```
$ sh faren.sh.
```

```
echo "Convert f to c"
echo "Enter farenheit"
read f
t=$(echo "$f - 32" | bc)
c=$(echo "$t * 5/9" | bc)
echo $c.
```

o/p.

Enter the farenheit.

~~50~~ 52

11

- 4) Shell script to perform arithmetic
operation on given 2 number


```

echo "Enter first number"
read a
echo "Enter second number"
read b
echo "Enter the operation"
echo "1) add 2) sub 3) mul 4) div"
echo "Enter your choice"
read ch

```

```

case "$ch" in
    "add") add=$((a+b))
            echo "addition: $add"
            ;;
    "sub") sub=$((a-b))
            echo "subtraction: $sub"
            ;;
    "mul") mul=$((a*b))
            echo "multiplication: $mul"
            ;;
    "div") div=$((a/b))
            echo "division: $div"
            ;;
    *)
        ;;
esac

```


o/p: \$\$. arithmetic.

Enter the first number

10

Enter the second number

5

Enter the operation

1) add 2. sub 3) mul 4) div.

enter your choice.

sub.

subtraction: 5

5) Shell script to find power of a number.

7. Power of a number
 read n.
 read p.
 echo "\$n ^ \$p" | bc

output:

2

3

8

8. Sum of first n numbers.

read n.
 i=1.
 sum=0
 while [\$i -le \$n]
 do
 sum=\$((sum+i))
 i=\$((i+1))
 done
 echo "\$sum"

output

5

15

6) Shell script to find sum of even numbers up to n.

echo "Enter the value of n"
 read n

sum=0

while [\$n -gt 0]

do

sum=\$((sum+n))

n=\$((n-2))

done

echo "\$sum"

a) b) enter the value of n
 10
 30

2 p. 8. 7

0/8
 20/10