

28/11/22.

paperism

Date.

1) factorial of a number.

```
echo "Enter number : "  
read n  
fact=1  
while [ $n -ne 0 ]  
do  
    fact='expr $fact \* $n'  
    n='expr $n - 1'  
done  
echo $fact
```

Output: Enter number
4
24

2) Fahrenheit to celsius.

```
echo "enter temperature in f : "  
read val  
echo "($val - 32) * 5/9" | bc
```

Output: Enter temperature in f:
32
0

```
3) echo "Enter the salary : "  
read salary  
echo "$salary + ($salary * 10/100) + ($salary *  
20/100)" | bc
```

Output: Enter the salary:
100
130

```

4) echo "Enter number:"
read n
sum=0
while [ $n -ne 0 ]
do
    sum=$((expr $sum + $n))
    n=$((expr $n - 1))
done
echo $sum

```

Output: Enter number
3
6

```

5) echo "Enter number"
read x
echo "Enter power"
read n
echo "$x ^ $n" | bc

```

Enter number: 3
Enter power: 2
9

```

6) echo "Enter number:"
read n
sum=0
while [ $n -ne 0 ]
do

```

```

    num=$((expr $n % 2))
    if [ $num -eq 0 ]
    then

```

```

        sum=$((expr $sum + $n))
    fi

```

```

n=$((expr $n - 1))
done
echo $sum

```

Output: Enter the number: 9
20

9+1
10

7) Shell script to find perform arithmetic operations on given two numbers.

```

echo "Enter two numbers:"
read num1
read num2
echo "Enter operator:"
read op

```

case "\$op" in

"+") echo `expr \$num1 + \$num2`;;

"-") echo `expr \$num1 - \$num2`;;

"*") echo `expr \$num1 * \$num2`;;

"/") echo `expr \$num1 / \$num2`;;

*) echo "invalid operator";;

esac.

Output: Enter two numbers: 2

3

3

Enter operator:

+

6