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Factorial Program.

```
echo "Enter a number"
read num
fact = 1
while [ $num -gt 1 ]
do
    fact = $(( fact * num ))
    num = $(( num -1 ))
done
echo "Factorial of a given number is " $fact
```

Arithmetic operations using switch

```
echo "Enter two numbers"
read a b
echo "what do you want to do? (1-5)"
echo "1) Sum"
echo "2) Difference"
echo "3) Product"
echo "4) Quotient"
echo "5) Remainder"
echo "Enter your choice"
read n
case "$n" in
1) echo "The sum of $a and $b is 'expr
                        $a + $b'";;
2) echo "The Difference of $a and $b is
                    'expr $a - $b'";;
3) echo "The Product of $a and $b is
                    'expr $ * $b'";;
```

echo " 4) The Quotient of $a and $b is `expr $a / $b`

echo " 5) The Remainder of $a and $b is `expr

$a % $b`"

esac.

Compute GROSS SALARY

echo " Enter the basic salary"

read bsal

if [$bsal -lt 1500]

then

gsal = $((bsal + ((bsal /100)*10)+ (bsal/

100)*90))

echo " The gross salary : $gsal"

fi

if [$bsal -gt 1500]

then

gsal = $((((bsal +500) + (bsal /100)*98))

echo "The gross salary : $gsal"

fi