OPEARTING SYSTEM

Experiment No. 03

-	AIM To Implent the programs in shell sco 1 To find factorial of given No. 2 To find greatest of three numbers.
-	2) to find greatest of three numbers.
,	Theory ->
	- Shell programming is supported by the
	- Shell programming is supported by the d nt types of variables including array va
	This variable can hold multiple values at the
	This variable can hold multiple values at the same time. Arrays provide a method grouping for set of variables.
	grouping for set of variables.
	- Instead of weating a new name for eco
	variable that's esslential, we can use a sin
	assay variable that can store all off
	variables.
	befining on array in shell programming
	syntax -
	3
	array_name [index] = value
	Here, grown name is the name of the arr
	that is assigned equals to value which anothe variable.
	anothe variable!

Thus, we leasn to implement arrays in mell-script, and success fully implemented program for factorial of numbers and finded the greatest of three numbers.	Conclusion -	
	Thus, we leasn't to implement array mell-script, and Success fully implemented for factorial of numbers and finded greatest of three numbers.	program the

Program codes:

Program 01

```
#!/bin/bash
factorial()
{
  product=$1
  if((product <= 2)); then</pre>
    echo $product
  else
    f=$((product -1))
f=$(factorial $f)
f=$((f*product))
echo $f
fi
}
echo "Please enter the Number to get the Factorial:"
read num
```

```
if((num == 0)); then
echo 1
else
factorial $num
fi
```

Output:

```
→ Practical Codes git:(master) bash Experiment_4.sh
Please enter the Number to get the Factorial:
7
5040
```

Program 02

```
echo "Enter three Integers:"
read a b c
if [ $a -gt $b -a $a -gt $c ]
then
echo "$a is Greatest"
elif [ $b -gt $c -a $b -gt $a ]
then
echo "$b is Greatest"
else
echo "$c is Greatest!"
fi
```

Output:

```
→ Practical Codes git:(master) bash Experiment_3.sh
Enter three Integers:
8 7 6
8 is Greatest
```