

Week 3

1) Shell script factorial of a number

Solⁿ

```
#!/bin/bash
echo "Enter the number"
read num
res=1
for i in $(seq 1 $num)
do
    res=$((res * i))
done
echo $res
```

Output :

Enter the number 5
120

2) Shell script to perform arithmetic operation

```
echo "Enter the number"
read a
read b
echo "Add = $((a+b))"
echo "Sub = $((a-b))"
echo "Div = $((a/b))"
echo "Multiply = $((a*b))"
```

Output

Enter two numbers
6
2

Add = 8

Sub = 4

Div = 3

Multiply = 12

3) Shell script Sum of even numbers.

```
echo "Enter number"
```

```
read num
```

```
sum=0
```

```
for i in $(seq 0 2 $num)
do
```

```
    sum=$((sum+i))
```

```
done
```

```
echo $sum
```

Output

```
Enter number
```

```
10
```

```
30
```

4) Shell script to Calculate Pow of numbers

```
echo "Enter the numbers and the Power"
```

```
read num
```

```
read Pow
```

```
res=1
```

```
for i in $(seq 1 $Pow)
```

```
do
```

```
    echo $res
```


Output

Enter the no & Power

10

5

100000

- 5) Read the user input. Assume the possible way in which user may enter the input. If they give any case of yes Print Agreed. If they give any cases of no then exit with 1.

```
echo "enter option"
```

```
read opt
```

```
case "$opt" in
```

```
"Y" | "y" | "yes" | "Yes" | "YES" | echo
```

```
echo "Agreed"
```

```
"N" | "n" | "no" | "No" | "NO" | exit
```

```
echo "Invalid option";;
```

```
esac
```

Output:

Enter option

yes

agreed.

Over