

1) Shell script to find if the given year is leap or not:

```
#!/bin/sh
```

```
echo "Enter the year:\C"
```

```
read year
```

```
if [ $(year%400) -eq 0 ]
```

```
then
```

```
echo "It's a Leap year"
```

```
elif [ $(year%100) -eq 0 ]
```

```
then
```

```
echo "It's not a leap year"
```

```
elif [ $(year%4) -eq 0 ]
```

```
then
```

```
echo "It's a Leap year"
```

```
else
```

```
echo "It's not a leap year"
```

```
fi
```

Output: sh fl.sh

Enter the year: 2024

It's a leap year

2) Shell script to find the biggest of three numbers.

```
#!/bin/sh
```

```
echo "Enter the three numbers:\C"
```

```
read a
```

```
read b
```

```
read c
```

```
if [ $$1a -gt $$2b ] && [ $$1a -gt $$3c ]
```

Positional Parameters

```
then
```

```
echo "$a is biggest number"
```

```
elif [ $b -gt $a ] && [ $b -gt $c ]
```

```
then
```

```
echo "$b is biggest number"
```

```
elif [ $c -gt $a ] && [ $c -gt $b ]
```

```
then
```

```
echo "$c is biggest number"
```

```
fi
```

Output:

Enter the three numbers: 10

20

30

30 is biggest number.

3) Shell script to check whether the number is zero/positive/negative:

```
#!/bin/sh
```

```
echo "Enter the number:\c"
```

```
read n
```

```
if [ $n -eq 0 ]
```

```
then
```

```
echo "The number is zero"
```

```
elif [ $n -gt 0 ]
```

```
then
```

```
echo "The number is positive"
```

```
else
```

```
echo "The number is negative"
```

```
fi
```

Output:

Enter the number: 4

The number is positive

4) Write a shell script to check whether two arguments passed to script are same or not.

```
#!/bin/sh
```

```
if [ "$1" = "$2" ]
```

```
then
```

```
echo "same arguments"
```

```
else
```

```
echo "Different arguments"
```

```
fi
```

Output:

sh f4.sh Keer Keer

Same arguments

5) Write a shell script to accept the marks of a student from the user. Find the grade and display the same.

```
#!/bin/sh
```

```
echo "Enter the marks:\c"
```

```
read m
```

```
if [ $m -ge 90 ] && [ $m -le 100 ]
```

```
then
```

```
echo "Grade : S"
```

```
elif [ $m -ge 80 ] && [ $m -le 89 ]
```

```
then
```

```
echo "Grade : A"
```

```
elif [ $m -ge 70 ] && [ $m -le 79 ]
```

```
then
```

```
echo "Grade : B"
```

```
elif [ $m -ge 60 ] && [ $m -le 69 ]
```

```
then
```

```
echo "Grade : C"
```

```
elif [ $m -ge 50 ] && [ $m -le 59 ]
```

```
then
```

```
echo "Grade : D"
```

```
elif [ $m -ge 40 ] && [ $m -le 49 ]
```

```
then
```

```
echo "Grade : E"
```

```
else
```

```
echo "Grade : F"
```

```
fi
```

```
echo "Marks : $m"
```

Output:

```
Enter the marks : 45
```

```
Grade : E
```

```
Marks = 45
```

2) Using positional parameter:

```
#!/bin/sh
```

```
if [ $1 -gt $2 ] && [ $1 -gt $3 ]
```

```
then
```

```
echo "$1 is biggest"
```

```
elif [ $2 -gt $1 ] && [ $2 -gt $3 ]
```

```
then
```

```
echo "$2 is biggest"
```

```
else
```

```
echo "$3 is biggest"
```

```
fi
```

Output:

```
sh posh 1 2 3  
3 is biggest
```