**Problems with if, elif and else**

**1. Read a single digit number and write the number in word**

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$ nano ifword1.sh

#! /bin/bash"

echo "enter a number"

read n

echo "Your number $n in words : "

if [ $n == 1 ]; then

echo "the number is $n one"

elif [ $n == 2 ]

then

echo "the number is $n two"

elif [ $n == 3 ]

then

echo "the number is $n three"

elif [ $n == 5 ]

then

echo "the number is $n five"

elif [ $n == 6 ]

then

echo "the number is $n six"

elif [ $n == 7 ]

then

echo "the number is $n seven"

elif [ $n == 8 ]

then

echo "the number is $n eight"

elif [ $n == 9 ]

then

echo "the number is $n nine"

elif [ $n == 0 ]

then

echo "the number is $n zero"

else

echo "no matches"

fi

output:

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$ ./ifword1.sh

enter a number

2

Your number 2 in words :

the number is 2 two

**2. Read a Number and Display the week day (Sunday, Monday,...)**

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$ nano ifweekdays.sh

#! /bin/bash -x

echo "enter a number"

read n

if [ $n -eq 1 ];

then

echo sunday

elif [ $n -eq 2 ]

then

echo monday

elif [ $n -eq 3 ]

then

echo tuesday

elif [ $n -eq 4 ]

then

echo wednesday

elif [ $n -eq 5 ]

then

echo thursday

elif [ $n -eq 6 ]

then

echo friday

elif [ $n -eq 7 ]

then

echo saturday

else

echo no day

fi

output:

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$ ./ifweekdays.sh

+ echo 'enter a number'

enter a number

+ read n

3

+ '[' 3 -eq 1 ']'

+ '[' 3 -eq 2 ']'

+ '[' 3 -eq 3 ']'

+ echo tuesday

tuesday

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$ ./ifweekdays.sh

+ echo 'enter a number'

enter a number

+ read n

7

+ '[' 7 -eq 1 ']'

+ '[' 7 -eq 2 ']'

+ '[' 7 -eq 3 ']'

+ '[' 7 -eq 4 ']'

+ '[' 7 -eq 5 ']'

+ '[' 7 -eq 6 ']'

+ '[' 7 -eq 7 ']'

+ echo saturday

saturday

**3. Read a Number 1, 10, 100, 1000, etc and display unit, ten, hundred,...**

#! /bin/bash

echo "enter number as 1,10,100,1000"

read number

if [ $number -eq 1 ]

then

echo unit

elif [ $number -eq 10 ]

then

echo ten

elif [ $number -eq 100 ]

then

echo hundred

elif [ $number -eq 1000 ]

then

echo thousand

else

echo not match

fi

output:

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$ ./if4.sh

enter number as 1,10,100,1000

100

Hundred

**4. Enter 3 Numbers do following arithmetic operation and find the one that is maximum and minimum**

**1. a + b \* c 3. c + a / b**

**2. a % b + c 4. a \* b + c**

#!/bin/bash -x

echo "enter first number "

read a

echo "enter second number "

read b

echo "enter third number "

read c

echo ope1\_a+b\*c

oper1=$((a+b\*c))

echo $oper1

echo ope2\_a%b+c

oper2=$((a%b+c))

echo $oper2

echo ope3\_c+a/b

oper3=$((c+a/b))

echo $oper3

echo ope4\_a\*b+c

oper4=$((a\*b+c))

echo $oper4

if [ $oper1 -gt $oper2 ] && [ $oper1 -gt $oper3 ] && [ $oper1 -gt $oper4 ] ; then

echo "$oper1 is a maximum Number"

elif [ $oper2 -gt $oper1 ] && [ $oper2 -gt $oper3 ] && [ $oper2 -gt $oper4 ] ; then

echo "$oper2 is a maximum Number"

elif [ $oper3 -gt $oper1 ] && [ $oper3 -gt $oper2 ] && [ $oper3 -gt $oper4 ] ; then

echo "$oper3 is a maximum number"

else

echo "$oper4 is a maximum Number"

fi

if [ $oper1 -lt $oper2 ] && [ $oper1 -lt $oper3 ] && [ $oper -lt $oper4 ] ; then

echo "$oper1 is a minimum Number"

elif [ $oper2 -lt $oper1 ] && [ $oper2 -lt $oper3 ] && [ $oper2 -lt $oper4 ] ; then

echo "$oper2 is a minimum Number"

elif [ $oper3 -lt $oper1 ] && [ $oper3 -lt $oper2 ] && [ $oper3 -lt $oper4 ] ; then

echo "$oper3 is a minimum number"

else

echo "$oper4 is a minimum Number"

fi

output:

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$ ./ifoperations1.sh

enter first number

4

enter second number

5

enter third number

6

ope1\_a+b\*c

34

ope2\_a%b+c

10

ope3\_c+a/b

6

ope4\_a\*b+c

26

34 is a maximum Number

6 is a minimum number