Selection Practice Problems with if & else



 Write a program that reads 5 Random 3 Digit values and then outputs the minimum and the maximum value

```
a=$(( RANDOM % 999 ))
b=$(( RANDOM % 999 ))
c=$(( RANDOM % 999 ))
                999 ))
 =$(( RANDOM %
     "random numbers are $a ,$b,$c,$d,$e"
if (( a>b && a>c && a>d && a>e ))
then
        echo "= $a is maximum"
elif (( b>a && b>c && b>d && b>e ))
then
        echo "= $b is maximum"
elif (( c>a && c>b && c>d && c>e ))
then
        echo "= $c is maximum"
     (( d>a && d>b && d>c && d>e ))
then
        echo "= $d is maximum"
elif (( e>a && e>b && e>c && e>d ))
then
        echo "= $e is maximum"
fi
if (( a<b && a<c && a<d && a<e ))
then
        echo "= $a is minimum"
elif (( b<a && b<c && b<d && b<e ))
then
        echo "= $b is minimum"
elif (( c<a && c<b && c<d && c<e ))
then
        echo "= $c is minimum"
elif (( d<a && d<b && d<c && d<e ))
then
        echo "= $d is minimum"
elif (( e<a && e<b && e<c && e<d ))
```

```
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$ sh max.sh

"random numbers are 39 ,43,111,930,570"

= 930 is maximum

= 39 is minimum
```

2. Write a program that takes day and month from the command line and prints true if day of month is between March 20 and June 20, false otherwise.

```
GNU nano 5.4

read -p "Enter a Date: "date
read -p "Enter a Month: "month

if ((((month >= 3 && date <= 20) && (date <31)) && (month <= 6 && date <= 20)))

then

echo "Month: $month Date: $date True";

else

echo "Month: $month Date: $date False";
```

```
xfzxl@DESKTOP-9KQ69I3 MINGW64 /d/BL Fellowship Program/01. Git-Linux commands/Day5-cmd $ sh monthdayTF.sh Enter a Date: 1 Enter a Month: 1 Month: 1 Date: 1 False

xfzxl@DESKTOP-9KQ69I3 MINGW64 /d/BL Fellowship Program/01. Git-Linux commands/Day5-cmd $ sh monthdayTF.sh Enter a Date: 19 Enter a Month: 6 Month: 6 Date: 19 True
```

 Write a program that takes a year as input and outputs the Year is a Leap Year or not a Leap Year. A Leap Year checks for 4 Digit Number, Divisible by 4 and not 100 unless divisible by 400.

```
GNU nano 5.4
read -p "Enter a year: " year

x='expr $year % 400'

y='expr $year % 100'

z='expr $year % 4'

if (( (x==0) || (y!=0) && (z==0) ))

then

echo "Entered year: $year is a leap year"

else

echo "Entered year: $year is not a leap year"

fi
```

```
xfzxl@DESKTOP-9KQ6913 MINGW64 /d/BL Fellowship Program/01. Git-Linux commands/Day5-cmd $ sh leapyear.sh Enter a year: 2020 Entered year: 2020 is a leap year xfzxl@DESKTOP-9KQ6913 MINGW64 /d/BL Fellowship Program/01. Git-Linux commands/Day5-cmd $ sh leapyear.sh Enter a year: 2021 Entered year: 2021 is not a leap year
```

4. Write a program to simulate a coin flip and print out "Heads" or "Tails" accordingly.

```
GNU nano 5.4

let result=$(( RANDOM % 2 ))

if (( $result == 0 ))

then
    echo "Head"

else
    echo "Tails"

fi
```

```
xfzxl@DESKTOP-9KQ69I3 MINGW64 /d/BL Fellowship Program/01. Git-Linux commands/Day5-cmd $ sh coinflip.sh Tails

xfzxl@DESKTOP-9KQ69I3 MINGW64 /d/BL Fellowship Program/01. Git-Linux commands/Day5-cmd $ sh coinflip.sh Head
```