WRITE PROGRAM THAT READS RANDOM 5 NUMBER AND PRINT MAX AND MIN

#! /bin/bash

num1=$(( RANDOM ))

num2=$(( RANDOM ))

num3=$(( RANDOM ))

num4=$(( RANDOM ))

num5=$(( RANDOM ))

echo $num1 $num2 $num3 $num4 $num5

if [ $num1 -gt $num2 -a $num1 -gt $num3 -a $num1 -gt $num4 -a $num1 -gt $num5 ]

then

echo $num1 "is max number"

elif [ $num2 -gt $num1 -a $num2 -gt $num3 -a $num2 -gt $num4 -a $num2 -gt $num5 ]

then

echo $num2 "is max number"

elif [ $num3 -gt $num1 -a $num3 -gt $num2 -a $num3 -gt $num4 -a $num3 -gt $num5 ]

then

echo $num3 "is max number"

elif [ $num4 -gt $num1 -a $num4 -gt $num3 -a $num4 -gt $num3 -a $num4 -gt $num5 ]

then

echo $num4 "is max number"

else

echo $num5 "is max number"

fi

if [ $num1 -lt $num2 -a $num1 -lt $num3 -a $num1 -lt $num4 -a $num1 -lt $num5 ]

then

echo $num1 "is min number"

elif [ $num2 -lt $num1 -a $num2 -lt $num3 -a $num2 -lt $num4 -a $num2 -lt $num5 ]

then

echo $num2 "is min number"

elif [ $num3 -lt $num1 -a $num3 -lt $num2 -a $num3 -lt $num4 -a $num3 -lt $num5 ]

then

echo $num3 "is min number"

elif [ $num4 -lt $num1 -a $num4 -lt $num2 -a $num4 -lt $num3 -a $num4 -lt $num5 ]

then

echo $num4 "is min number"

else

echo $num5 "is min number"

fi

28900 11549 25400 7653 22979

28900 is max number

7653 is min number

WRITE PROGRAM THAT TAKES DAY AND MONTH BETWEEN MARCH 20 AND JUNE 20 AND PRINT TRUE IF CONDITION SATISFY ELSE FALSE.

#! /bin/bash

read -p "Enter Day: " day

read -p "Enter Month: " month

if [ $month -eq 3 -a $day -gt 20 -a $day -le 31 ]

then

echo "true"

elif [ $month -eq 4 -a $day -ge 1 -a $day -le 30 ]

then

echo "true"

elif [ $month -eq 5 -a $day -ge 1 -a $day -le 31 ]

then

echo "true"

elif [ $month -eq 6 -a $day -ge 1 -a $day -lt 20 ]

then

echo "true"

else

echo "false"

fi

Enter Day: 25

Enter Month: 5

True

PROGRAM TO CHECK LEAP YEAR

#! /bin/bash

read -p "Enter a year: " year

if [ $year -gt 999 ]

then

if [ $((year%4)) -eq 0 -a $((year%100)) -ne 0 ]

then

echo "It is a LEAP year"

elif [ $((year%400)) -eq 0 ]

then

echo "It is a LEAP year"

else

echo "NOT a LEAP year !!"

fi

else

echo "Enter a valid year"

fi

Enter a year: 2020

It is a LEAP year

Enter a year: 2021

NOT a LEAP year !!

PROGRAM TO SIMULATE HEAD AND TAIL

#! /bin/bash

val=$(( RANDOM%2 ))

if [ $val -eq 0 ]

then

echo "HEAD"

else

echo "TAIL"

fi

READ SINGLE DIGIT NUMBER AND WRITE IT IN WORD

#! /bin/bash

read -p "Enter number from 0 to 9: " number

if [ $number -eq 0 ]

then

echo "zero"

elif [ $number -eq 1 ]

then

echo "one"

elif [ $number -eq 2 ]

then

echo "two"

elif [ $number -eq 3 ]

then

echo "three"

elif [ $number -eq 4 ]

then

echo "four"

elif [ $number -eq 5 ]

then

echo "five"

elif [ $number -eq 6 ]

then

echo "six"

elif [ $number -eq 7 ]

then

echo "seven"

elif [ $number -eq 8 ]

then

echo "eight"

elif [ $number -eq 9 ]

then

echo "nine"

else

echo "Enter single digit number"

fi

Enter number from 0 to 9: 3

Three

READ NUMBER DISPLAY WEEK DAY

#! /bin/bash

read -p "Enter number from 0 to 6: " day

if [ $day -eq 0 ]

then

echo "Sunday"

elif [ $day -eq 1 ]

then

echo "Monday"

elif [ $day -eq 2 ]

then

echo "Tuesday"

elif [ $day -eq 3 ]

then

echo "Wednesday"

elif [ $day -eq 4 ]

then

echo "Thursday"

elif [ $day -eq 5 ]

then

echo "Friday"

elif [ $day -eq 6 ]

then

echo "Saturday"

else

echo "Not a valid day number"

fi

Enter number from 0 to 6: 4

Thursday

READ 1, 10, 100, 1000 AND PRINT UNIT, TEN, HUNDRED, THOUSAND

#! /bin/bash

read -p "Enter the unit in number: " unit

if [ $unit -eq 1 ]

then

echo "Unit"

elif [ $unit -eq 10 ]

then

echo "Ten"

elif [ $unit -eq 100 ]

then

echo "Hundred"

elif [ $unit -eq 1000 ]

then

echo "Thousand"

elif [ $unit -eq 10000 ]

then

echo "Ten Thousand"

else

echo "Not VALID"

fi

Enter the unit in number: 100

Hundred

ENTER 3 NUMBER, PERFORM 4 ARITHMETIC OPERATION AND FIND OUT MAX AND MIN

#! /bin/bash

read -p "Enter value of 'a': " a

read -p "Enter value of 'b': " b

read -p "Enter value of 'c': " c

val1=$((a+(b\*c)))

val2=$(((a%b)+c))

val3=$((c+(a/b)))

val4=$(((a\*b)+c))

echo "a + b \* c =" $val1

echo "a % b + c =" $val2

echo "c + a / b =" $val3

echo "a \* b + c =" $val4

if [ $val1 -gt $val2 -a $val1 -gt $val3 -a $val1 -gt $val4 ]

then

echo $val1 "is max"

elif [ $val2 -gt $val1 -a $val2 -gt $val3 -a $val2 -gt $val4 ]

then

echo $val2 "is max"

elif [ $val3 -gt $val1 -a $val3 -gt $val2 -a $val3 -gt $val4 ]

then

echo $val3 "is max"

else

echo $val4 "is max"

fi

if [ $val1 -lt $val2 -a $val1 -lt $val3 -a $val1 -lt $val4 ]

then

echo $val1 "is min"

elif [ $val2 -lt $val1 -a $val2 -lt $val3 -a $val2 -lt $val4 ]

then

echo $val2 "is min"

elif [ $val3 -lt $val1 -a $val3 -lt $val2 -a $val3 -lt $val4 ]

then

echo $val3 "is min"

else

echo $val4 "is min"

fi

Enter value of 'a': 4

Enter value of 'b': 5

Enter value of 'c': 6

a + b \* c = 34

a % b + c = 10

c + a / b = 6

a \* b + c = 26

34 is max

6 is min