**Day 8**

**Write a program in the following steps**

**a. Roll a die and find the number between 1 to 6**

**b. Repeat the Die roll and find the result each time**

**c. Store the result in a dictionary**

**d. Repeat till any one of the number has reached 10 times**

**e. Find the number that reached maximum times and the one that was for minimum times**

echo " Day 10 Prob 01 "

echo "Enter value of a :"

read a

echo "Enter value of b :"

read b

echo "Enter value of c :"

read c

declare -A diction

function arithmeticFunction() {

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

diction[1]=$result

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

diction[2]=$result

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

diction[3]=$result

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

diction[4]=$result

echo "${diction[\*]}"

}

arithmeticFunction

declare -a array

for key in "${diction[\*]}";

do

array=($key)

done

echo "

Elements in array : ${array[\*]}"

n=${#array[\*]}

echo "Sorting $n elements"

for ((i=0; i <= $n; i++))

do

for ((j=((i + 1)); j <= $n; j++))

do

if [[ ${array[i]} -gt ${array[j]} ]]

then

tmp=${array[i]}

array[i]=${array[j]}

array[j]=$tmp

fi

done

done

echo "Array in Ascending order : ${array[\*]} "

for ((i=0; i <= $n; i++))

do

for ((j=((i + 1)); j <= $n; j++))

do

if [[ ${array[i]} -lt ${array[j]} ]]

then

tmp=${array[i]}

array[i]=${array[j]}

array[j]=$tmp

fi

done

done

echo "Array in Descending order : ${array[\*]} "

**Write a Program to generate a birth month of 50 individuals between the**

**year 92 & 93. Find all the individuals having birthdays in the same month.**

**Store it to finally print.**

**Cat Data.csv:**

User1,16-jun-1990

User2,07-Jul-1989

User3,15-Jun-1995

User4,15-Jun

IFILE="$HOME/bday.csv"

OFILE="bday\_out"$$

MAILID="guru@xyz.com"

# Retrieving today's date and month

DAT=`date '+%d %b'`

DAY=${DAT:0:2}

MON=`echo ${DAT:3:3} | awk '{print toupper($0);}'`

while IFS=",-" read name day month year

do

day=`printf "%02d\n" $day`

month=`echo $month | awk '{print toupper($0);}'`

if [ $day -eq $DAY -a $month = $MON ]

then

echo $name

fi

done < $IFILE > $OFILE

if [ -f $OFILE -a -s $OFILE ]

then

sed -i '1i The following users celebrate their birthday:\n' $OFILE

mailx -s "Birthday on: $DAT" $MAILID < $OFILE

\rm $OFILE

echo "Birthday mail sent"

else

echo "No birthdays today"

fi