echo "WELCOME TO FLIP COIN SIMULATOR"

declare -A flipStore

isFlip=0

maximum=0

temp=0

function totalFlip()

{

for((index=0; index<$1; index++))

do

side=""

for((indexOne=0; indexOne<$2; indexOne++))

do

flipCoin=$((RANDOM%2))

if [ $flipCoin -eq $isFlip ]

then

side+=H

else

side+=T

fi

done

flipStore[$side]=$((${flipStore[$side]}+1))

done

echo "Count of all combination :${flipStore[@]}"

}

function totalPercentageFlip()

{

for count in ${!flipStore[@]}

{

flipStore[$count]='echo"scale=2; $((${flipStore[$count]}))/$times\*100 "'

temp=${flipStore[$count]}

if [ $temp -ge $maximum ]

then

maximum=$temp

key=$count

fi

}

}

read -p "Enter number of times you want to flip:" times

read -p "Enter choice 1)Singlet 2)Doublet 3)Triplet and so on:" coins

totalFlip $times $coins

totalPercentageFlip

echo "All head and tail combination:${!flipStore[@]}"

echo "percentage of all combination:${flipStore[@]}"

echo "Max winning combination :" $maximum "-" $key

echo "Welcome to the Program"

echo "Enter the first Number"

read a

echo "Enter the second Number"

read b

echo "Enter the third Number"

read c

echo "First Number:$a"

echo "Second Number:$b"

echo "Third Number:$c"

result1=$(($a+($b\*$c)))

result2=$((($a\*$b)+$c))

result3=$(($c+($a/$b)))

result4=$((($a%$b)+$c))

echo $result1

echo $result2

echo $result3

echo $result4

declare -A test\_var

test\_var[key1]=$result1

test\_var['key2']=$result2

test\_var['key3']=$result3

# add key/value pair using bash variables

another\_key\_var='key4'

another\_value\_var=$result4

test\_var[$another\_key\_var]=$another\_value\_var

echo ${test\_var[key1]}

echo ${test\_var[key2]}

echo ${test\_var[key3]}

echo ${test\_var[$another\_key\_var]}

counter=0

Array[((counter++))]=$result1

Array[((counter++))]=$result2

Array[((counter++))]=$result3

Array[((counter++))]=$result4

echo ${Array[@]}

echo "Original Numbers in array:"

for (( i = 0; i <= 3; i++ ))

do

echo ${Array[$i]}

done

for (( i = 0; i <= 3; i++ ))

do

for (( j = $i; j <= 3; j++ ))

do

if [ ${Array[$i]} -gt ${Array[$j]} ]; then

t=${Array[$i]}

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

Array[$j]=$t

fi

done

done

echo -e "\nSorted Numbers in Descending Order:"

for (( i=0; i <= 3; i++ ))

do

echo ${Array[$i]}

done

for (( i = 0; i <= 3; i++ ))

do

for (( j = $i; j <= 3; j++ ))

do

if [ ${Array[$i]} -lt ${Array[$j]} ]; then

t=${Array[$i]}

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

Array[$j]=$t

fi

done

done

echo -e "\nSorted Numbers in Descending Order:"

for (( i=0; i <= 3; i++ ))

do

echo ${Array[$i]}

done

#!/bin/bash

echo "Welcome to the Flip coin simulation program"

echo "toss time"

counter=0

tails=0;

heads=0;

i=0;

while [ true ]

do

TossCheck=$((RANDOM%2));

if [ $TossCheck -eq 0 ];

then

tails=$(($tails+1));

echo Tails;

else

heads=$(($heads+1));

echo Heads;

fi

difft=$(($tails-$heads));

diffh=$(($heads-$tails));

if [ $tails -ge 21 -a $difft -ge 2 ]

then

echo "Tails won by: "$(($tails-$heads));

break;

elif [ $heads -ge 21 -a $diffh -ge 2 ]

then

echo "Heads won by:" $(($heads-$tails));

break;

fi

done

echo "Tails count: "$tails "and Heads count :"$heads;