DAY 8 ASSIGNMENT DICTIONARY

Q1.Write a program in the following steps

1. Roll a dice and find the number between 1 and 6.
2. Repeat the dice roll and find the result each time
3. Store the result in a dictionary
4. Repeat till one of the the member has reached 10 times.
5. Find the number that reached maximum times and one that was for minimum times.

Ans:

#!/bin/bash

echo "Welcome to DiceRoll:" DiceRoll

read DiceRoll

for ((j;j <= DiceRoll; j++))

do

randomNumber=0

#(this is for initialize the number)

randomNumber=$((RANDOM%(7+1-1)))

DICEROLL+=($randomNumber)

done

echo "${DICEROLL[@]}"

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

do

for((j = 0; j<DiceRoll-i; j++))

do

if [ ${DICEROLL[j]} -gt ${DICEROLL[$((j+1))]} ]

then

temp=${DICEROLL[j]}

DICEROLL[$j]=${DICEROLL[$((j+1))]}

DICEROLL[$((j+1))]=$temp

fi

count=0

for randomNumber in ${DICEROLL[\*]};

do

if [[ $randomNumber = 6 ]]; then

(( count++ ))

fi

done

done

done

echo $count

echo "Diceroll results in sorted order :"

echo ${DICEROLL[\*]}

Q2. Write a program to genenrate a birth month of 50 individuals between the year 92 and 93.Find all the individuals having birthdays in the same month.Store it to finnaly print.

Ans:

echo -n "enter the number of people:";

read people

for ((j;j <= people; j++))

do

randomNumber=0

randomNumber=$((1 + RANDOM%(12-1+1)))

BIRTHMONTH+=($randomNumber)

done

echo "${BIRTHMONTH[@]}"

for ((i = 0; i<50; i++))

do

for((j = 0; j<50-i-1; j++))

do

if [ ${BIRTHMONTH[j]} -gt ${BIRTHMONTH[$((j+1))]} ]

then

temp=${BIRTHMONTH[j]}

BIRTHMONTH[$j]=${BIRTHMONTH[$((j+1))]}

BIRTHMONTH[$((j+1))]=$temp

fi

done

done

echo "Array in sorted order :"

echo ${BIRTHMONTH[\*]}

case $BIRTHMONTH in

1) echo "Birthmonth is January";;

2) echo "Birth month is February";;

3) echo "Birthmonth is March";;

4) echo "Birthmonth is April";;

5) echo "Birthmonth is May";;

6) echo "Birthmonth is June";;

7) echo "Birthmonth is July";;

8) echo "Birthmonth is August";;

9) echo "Birthmonth is September";;

10) echo "Birthmonth is October";;

11) echo "Birthmonth is November";;

\*) echo "Birthmonth is December";;

esac