Assignment No.05

Name: - Omprakash Khawshi

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Q.1 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 numbers has reached 10 times

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

Code: -

```
die1=$((1+ RANDOM%6))
echo "After rolling the die and getting :- $die1"
Count_1=0
Count_2=0
Count_3=0
Count_4=0
Count_5=0
Count_6=0
while  :
do
die=$((1+ RANDOM %6 ))
if [ $die == 1 ]
then
Count_1=$(( $Count_1+1 ))
echo "$die ❶ : $Count_1 Times 🕰"
if [ $Count_1 == 10 ]
then
echo "❂❂❂❂❂❂❂❂❂❂ $die ❂❂❂❂❂❂❂❂❂❂ "
break;
fi
elif [ $die == 2 ]
then
Count_2=$(( $Count_2+1 ))
echo "$die ❷ : $Count_2 Times 🕰"
if [ $Count_2 == 10 ]
then
echo "❂❂❂❂❂❂❂❂❂❂ $die ❂❂❂❂❂❂❂❂❂❂ "
```

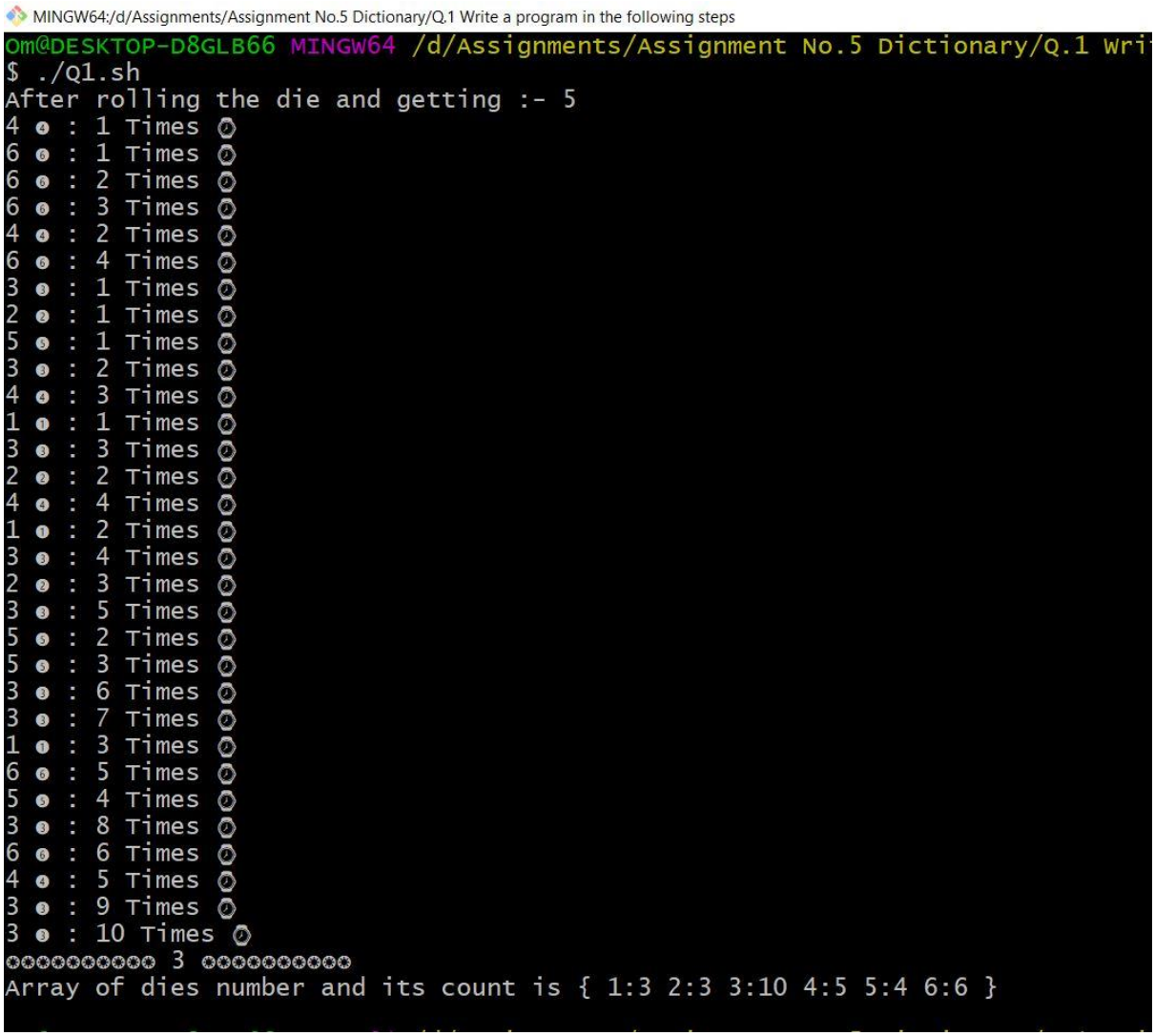
```
break;
fi
elif [ $die == 3 ]
then
Count_3=$(( $Count_3+1 ))
echo "$die ❸ : $Count_3 Times 🕰"
if [ $Count_3 == 10 ]
then
echo "❂❂❂❂❂❂❂❂❂❂ $die ❂❂❂❂❂❂❂❂❂❂ "
break;
fi
elif [ $die == 4 ]
then
Count_4=$(( $Count_4+1 ))
echo "$die ❹ : $Count_4 Times 🕰"
if [ $Count_4 == 10 ]
then
echo "❂❂❂❂❂❂❂❂❂❂ $die ❂❂❂❂❂❂❂❂❂❂ "
break;
fi
elif [ $die == 5 ]
then
Count_5=$(( $Count_5+1 ))
echo "$die ❺ : $Count_5 Times 🕰"
if [ $Count_5 == 10 ]
then
echo "❂❂❂❂❂❂❂❂❂❂ $die ❂❂❂❂❂❂❂❂❂❂ "
break;
fi
elif [ $die == 6 ]
then
Count_6=$(( $Count_6+1 ))
echo "$die ❻ : $Count_6 Times 🕰"
if [ $Count_6 == 10 ]
then
echo "❂❂❂❂❂❂❂❂❂❂ $die ❂❂❂❂❂❂❂❂❂❂ "
break;
fi
fi
done
arr[0]="1:$Count_1"
arr[1]="2:$Count_2"
```

arr[2]="3:$Count_3"
arr[3]="4:$Count_4"
arr[4]="5:$Count_5"
arr[5]="6:$Count_6"
echo "Array of dies number and its count is { ${arr[@]} }"

MINGW64:/d/Assignments/Assignment No.5

```
  GNU nano 5.4
diel=$((1+ RANDOM%6))
echo "After rolling the die and getting :- $diel"
Count_1=0
Count_2=0
Count_3=0
Count_4=0
Count_5=0
Count_6=0
while  :
do
    die=$((1+ RANDOM %6 ))
    if [ $die == 1 ]
    then
        Count_1=$(( $Count_1+1 ))
        echo "$die ● : $count_1 Times ⏼ "
        if [ $Count_1 == 10 ]
        then
                echo "ooooooooooo $die ooooooooooo "
                break;
        fi
    elif [ $die == 2 ]
    then
        Count_2=$(( $Count_2+1 ))
        echo "$die ● : $count_2 Times ⏼ "
        if [ $Count_2 == 10 ]
        then
                echo "ooooooooooo $die ooooooooooo "
                break;
        fi
    elif [ $die == 3 ]
    then
        Count_3=$(( $Count_3+1 ))
        echo "$die ● : $count_3 Times ⏼ "
        if [ $Count_3 == 10 ]
        then
                echo "ooooooooooo $die ooooooooooo "
                break;
         fi
    elif [ $die == 4 ]
    then
        Count_4=$(( $Count_4+1 ))
        echo "$die ● : $count_4 Times ⏼ "
        if [ $Count_4 == 10 ]
        then
                echo "ooooooooooo $die ooooooooooo "
                break;
        fi
    elif [ $die == 5 ]
    then
        Count_5=$(( $Count_5+1 ))
        echo "$die ● : $count_5 Times ⏼ "
        if [ $Count_5 == 10 ]
        then
                echo "ooooooooooo $die ooooooooooo "
                break;
        fi
    elif [ $die == 6 ]
    then
        Count_6=$(( $Count_6+1 ))
        echo "$die ● : $count_6 Times ⏼ "
        if [ $Count_6 == 10 ]
        then
                echo "ooooooooooo $die ooooooooooo "
                break;
        fi
    fi
done
arr[0]="1:$Count_1"
arr[1]="2:$Count_2"
arr[2]="3:$Count_3"
arr[3]="4:$Count_4"
arr[4]="5:$Count_5"
arr[5]="6:$Count_6"
echo "Array of dies number and its count is { ${arr[@]} }"
```

Output: -


MINGW64:/d/Assignments/Assignment No.5 Dictionary/Q.1 Write a program in the following steps
Om@DESKTOP-D8GLB66 MINGW64 /d/Assignments/Assignment No.5 Dictionary/Q.1 Wri
$ ./Q1.sh
After rolling the die and getting :- 5
4 : 1 Times
6 : 1 Times
6 : 2 Times
6 : 3 Times
4 : 2 Times
6 : 4 Times
3 : 1 Times
2 : 1 Times
5 : 1 Times
3 : 2 Times
4 : 3 Times
1 : 1 Times
3 : 3 Times
2 : 2 Times
4 : 4 Times
1 : 2 Times
3 : 4 Times
2 : 3 Times
3 : 5 Times
5 : 2 Times
5 : 3 Times
3 : 6 Times
3 : 7 Times
1 : 3 Times
6 : 5 Times
5 : 4 Times
3 : 8 Times
6 : 6 Times
4 : 5 Times
3 : 9 Times
3 : 10 Times
3
Array of dies number and its count is { 1:3 2:3 3:10 4:5 5:4 6:6 }

Q.2 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.

Code: -

```
for(( i=0; i<=50;i++ ))
do
Month=$(( 1 + $RANDOM%12 ))
Year=$(( 1992 + $RANDOM%2 ))
if [ $Month == 1 ] | [ $Month == 3 ] | [ $Month == 5 ] | [ $Month == 7 ] | [ $Month == 8 ] | [
$Month == 10 ] | [ $Month == 12 ]
then
Date=$(( 1 + $RANDOM % 31 ))
elif [ $Month == 2 ]
then
if [ $Year == 1992 ]
then
Date=$(( 1+ $RANDOM % 29 ))
else
Date=$(( 1 + $RANDOM % 28))
fi
arr02[$i]=$Date/$Month/$Year
else
Date=$(( 1 + $RANDOM % 30 ))
if [ $Month == 4 ]
then
arr04[$i]=$Date/$Month/$Year
elif [ $Month == 6 ]
then
arr06[$i]=$Date/$Month/$Year
elif [ $Month == 9 ]
then
arr09[$i]=$Date/$Month/$Year
elif [ $Month == 11 ]
then
arr11[$i]=$Date/$Month/$Year
fi
fi
if [ $Month == 1 ]
then
arr01[$i]=$Date/$Month/$Year
elif [ $Month == 3 ]
then
arr03[$i]=$Date/$Month/$Year
elif [ $Month == 5 ]
```

```
then
arr05[$i]=$Date/$Month/$Year
elif [ $Month == 7 ]
then
arr07[$i]=$Date/$Month/$Year
elif [ $Month == 8 ]
then
arr08[$i]=$Date/$Month/$Year
elif [ $Month == 10 ]
then
arr10[$i]=$Date/$Month/$Year
elif [ $Month == 12 ]
then
arr12[$i]=$Date/$Month/$Year
fi
echo "$Date/$Month/$Year"
arr[$i]=$Date/$Month/$Year
done
echo ""
echo " dBdBdBdBdBdBdBdBdBdBdBdBdBdBdBdB Date Of Birth 50 Person dBdBdBdBdBdBdBdB
dBdBdBdBdBdBdBdB"
#echo "\n ${arr[*]}"
echo ""
echo "❄❄❄❄❄❄❄❄❄❄❄❄❄❄❄❄ Birth Month : ❶ January
❄❄❄❄❄❄❄❄❄❄❄❄❄❄❄❄"
echo ${arr01[*]}
echo ""
echo "❄❄❄❄❄❄❄❄❄❄❄❄❄❄❄❄ Birth Month : ❷ February
❄❄❄❄❄❄❄❄❄❄❄❄❄❄❄❄"
echo ${arr02[*]}
echo ""
echo "🌼🌼🌼🌼🌼🌼🌼🌼🌼🌼🌼🌼🌼🌼 Birth Month : ❸ March
🌼🌼🌼🌼🌼🌼🌼🌼🌼🌼🌼🌼🌼🌼 "
echo ${arr03[*]}
echo ""
echo "🌼🌼🌼🌼🌼🌼🌼🌼🌼🌼🌼🌼🌼🌼 Birth Month : ❹ April
🌼🌼🌼🌼🌼🌼🌼🌼🌼🌼🌼🌼🌼🌼 "
echo ${arr04[*]}
echo ""
echo "🌼🌼🌼🌼🌼🌼🌼🌼🌼🌼🌼🌼🌼🌼 Birth Month : ❺ May
🌼🌼🌼🌼🌼🌼🌼🌼🌼🌼🌼🌼🌼🌼 "
echo ${arr05[*]}
```

```
echo ""
echo "☀☀☀☀☀☀☀☀☀☀☀☀☀☀☀☀ Birth Month : ❻ June
☀☀☀☀☀☀☀☀☀☀☀☀☀☀☀☀ "
echo ${arr06[*]}
echo ""
echo "☂☂☂☂☂☂☂☂☂☂☂☂☂☂☂☂ Birth Month : ❼ July
☂☂☂☂☂☂☂☂☂☂☂☂☂☂☂☂"
echo ${arr07[*]}
echo ""
echo "☂☂☂☂☂☂☂☂☂☂☂☂☂☂☂☂ Birth Month : ❽ August
☂☂☂☂☂☂☂☂☂☂☂☂☂☂☂☂ "
echo ${arr08[*]}
echo ""
echo "☂☂☂☂☂☂☂☂☂☂☂☂☂☂☂☂ Birth Month : ❾ September
☂☂☂☂☂☂☂☂☂☂☂☂☂☂☂☂"
echo ${arr09[*]}
echo ""
echo "☂☂☂☂☂☂☂☂☂☂☂☂☂☂☂☂ Birth Month : ❿ October
☂☂☂☂☂☂☂☂☂☂☂☂☂☂☂☂ "
echo ${arr10[*]}
echo ""
echo "❉❉❉❉❉❉❉❉❉❉❉❉❉❉❉❉ Birth Month : ❶❶ November
❉❉❉❉❉❉❉❉❉❉❉❉❉❉❉❉"
echo ${arr11[*]}
echo ""
echo "❉❉❉❉❉❉❉❉❉❉❉❉❉❉❉❉ Birth Month : ❶❷ December
❉❉❉❉❉❉❉❉❉❉❉❉❉❉❉❉ "
echo ${arr12[*]}
echo ""
```

MINGW64:/d/Assignments/Assignment No.5 Dictionary/Q.2 Write a Program to generate a birth month of 50 individuals between the year 92 & 93. Find all the individuals having birthdays in the

```
  GNU nano 5.4                                                    Q2.sh
for(( i=0; i<=50;i++ ))
do
Month=$(( 1 + $RANDOM%12 ))
Year=$(( 1992 + $RANDOM%2 ))
if [ $Month == 1 ] | [ $Month == 3 ] | [ $Month == 5 ] | [ $Month == 7 ] | [ $Month == 8 ] | [ $Month == 10 ] | [ $Month == 12 ]
then
Date=$(( 1 + $RANDOM % 31 ))
elif [ $Month == 2 ]
then
if [ $Year == 1992 ]
then
Date=$(( 1+ $RANDOM % 29 ))
else
Date=$(( 1 + $RANDOM % 28))
fi
arr02[$i]=$Date/$Month/$Year
else
Date=$(( 1 + $RANDOM % 30 ))
if [ $Month == 4 ]
then
arr04[$i]=$Date/$Month/$Year
elif [ $Month == 6 ]
then
arr06[$i]=$Date/$Month/$Year
elif [ $Month == 9 ]
then
arr09[$i]=$Date/$Month/$Year
elif [ $Month == 11 ]
then
arr11[$i]=$Date/$Month/$Year
fi
fi
if [ $Month == 1 ]
then
arr01[$i]=$Date/$Month/$Year
elif [ $Month == 3 ]
then
arr03[$i]=$Date/$Month/$Year
elif [ $Month == 5 ]
then
arr05[$i]=$Date/$Month/$Year
elif [ $Month == 7 ]
then
arr07[$i]=$Date/$Month/$Year
elif [ $Month == 8 ]
then
arr08[$i]=$Date/$Month/$Year
elif [ $Month == 10 ]
```

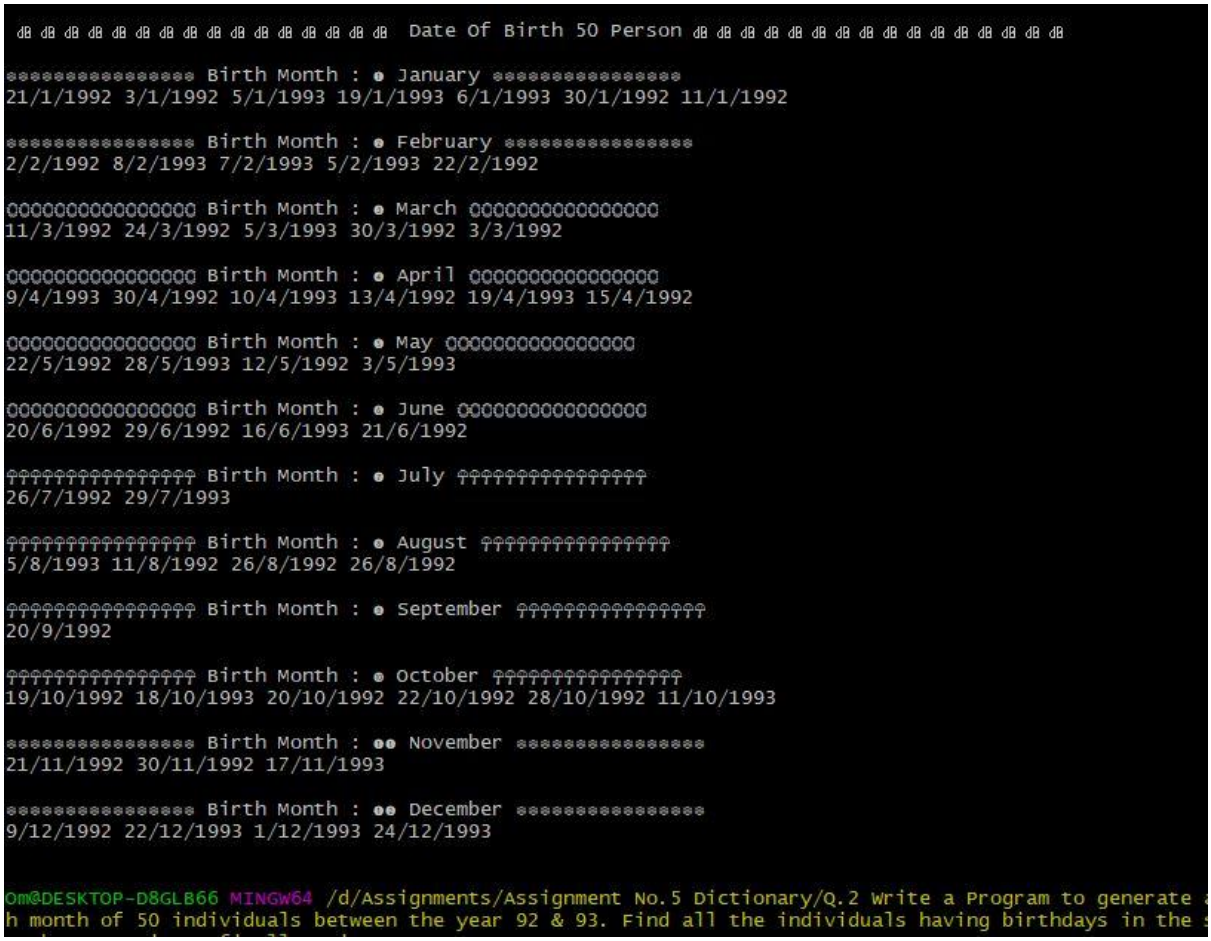
```
then
arr08[$i]=$Date/$Month/$Year
elif [ $Month == 10 ]
then
arr10[$i]=$Date/$Month/$Year
elif [ $Month == 12 ]
then
arr12[$i]=$Date/$Month/$Year
fi
echo "$Date/$Month/$Year"
arr[$i]=$Date/$Month/$Year
done
echo ""
echo "  dB dB dB dB dB dB dB dB dB dB dB dB dB dB dB  Date Of Birth 50 Person dB dB dB dB dB dB dB dB dB dB dB dB dB dB dB "
#echo "\n ${arr[*]}"
echo ""
echo "**************** Birth Month : ● January ****************"
echo ${arr01[*]}
echo ""
echo "**************** Birth Month : ● February ****************"
echo ${arr02[*]}
echo ""
echo "@@@@@@@@@@@@@@@@ Birth Month : ● March @@@@@@@@@@@@@@@@ "
echo ${arr03[*]}
echo ""
echo "@@@@@@@@@@@@@@@@ Birth Month : ● April @@@@@@@@@@@@@@@@ "
echo ${arr04[*]}
echo ""
echo "@@@@@@@@@@@@@@@@ Birth Month : ● May @@@@@@@@@@@@@@@@ "
echo ${arr05[*]}
echo ""
echo "@@@@@@@@@@@@@@@@ Birth Month : ● June @@@@@@@@@@@@@@@@ "
echo ${arr06[*]}
echo ""
echo "################ Birth Month : ● July ################"
echo ${arr07[*]}
echo ""
echo "################ Birth Month : ● August ################ "
echo ${arr08[*]}
echo ""
echo "################ Birth Month : ● September ################"
echo ${arr09[*]}
echo ""
echo "################ Birth Month : ● October ################ "
echo ${arr10[*]}
echo ""
echo "**************** Birth Month : ●● November ****************"
echo ${arr11[*]}
echo ""
echo "**************** Birth Month : ●● December **************** "
echo ${arr12[*]}
echo ""
```

Output: -

```
Om@DESKTOP-D8GLB66 MINGW64 /d/Assignments/Assignment No.5 Dictionary/Q.2 Write a Program to generate
h month of 50 individuals between the year 92 & 93. Find all the individuals having birthdays in the
onth. Store it to finally print
$ nano Q2.sh

Om@DESKTOP-D8GLB66 MINGW64 /d/Assignments/Assignment No.5 Dictionary/Q.2 Write a Program to generate
h month of 50 individuals between the year 92 & 93. Find all the individuals having birthdays in the
onth. Store it to finally print
$ ./Q2.sh
21/1/1992
9/12/1992
2/2/1992
9/4/1993
21/11/1992
20/6/1992
22/12/1993
3/1/1992
26/7/1992
5/1/1993
11/3/1992
29/6/1992
19/10/1992
22/5/1992
19/1/1993
18/10/1993
24/3/1992
5/3/1993
30/4/1992
8/2/1993
28/5/1993
5/8/1993
11/8/1992
26/8/1992
7/2/1993
16/6/1993
10/4/1993
20/9/1992
5/2/1993
20/10/1992
22/2/1992
6/1/1993
21/6/1992
13/4/1992
30/1/1992
12/5/1992
1/12/1993
30/11/1992
22/10/1992
30/3/1992
29/7/1993
19/4/1993
11/1/1992
28/10/1992
26/8/1992
24/12/1993
3/3/1992
11/10/1993
15/4/1992
3/5/1993
17/11/1993

 dB dB dB dB dB dB dB dB dB dB dB dB dB dB dB  Date Of Birth 50 Person dB dB dB dB dB dB dB dB dB dB dB dB dB dB dB
```


Date Of Birth 50 Person
Birth Month : January
21/1/1992 3/1/1992 5/1/1993 19/1/1993 6/1/1993 30/1/1992 11/1/1992
Birth Month : February
2/2/1992 8/2/1993 7/2/1993 5/2/1993 22/2/1992
Birth Month : March
11/3/1992 24/3/1992 5/3/1993 30/3/1992 3/3/1992
Birth Month : April
9/4/1993 30/4/1992 10/4/1993 13/4/1992 19/4/1993 15/4/1992
Birth Month : May
22/5/1992 28/5/1993 12/5/1992 3/5/1993
Birth Month : June
20/6/1992 29/6/1992 16/6/1993 21/6/1992
Birth Month : July
26/7/1992 29/7/1993
Birth Month : August
5/8/1993 11/8/1992 26/8/1992 26/8/1992
Birth Month : September
20/9/1992
Birth Month : October
19/10/1992 18/10/1993 20/10/1992 22/10/1992 28/10/1992 11/10/1993
Birth Month : November
21/11/1992 30/11/1992 17/11/1993
Birth Month : December
9/12/1992 22/12/1993 1/12/1993 24/12/1993
Om@DESKTOP-D8GLB66 MINGW64 /d/Assignments/Assignment No.5 Dictionary/Q.2 Write a Program to generate
h month of 50 individuals between the year 92 & 93. Find all the individuals having birthdays in the