- 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 number has reached 10 times
- e. Find the number that reached maximum times and the one that was for minimum times

Ans)#!/bin/bash

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declare -A dice_roll
one=1
two=2
three=3
four=4
five=5
six=6
key=1
echo "Rolling Dice......"
while [[ $one -le 10 && $two -le 10 && $three -le 10 && $four -le 10 && $five -le 10 && $six -le
10]]
do
     dice=$(( RANDOM % 6 + 1 ))
     echo $dice
     dice_roll[i]=$dice
     if [ ${dice} -eq 1 ]
     then
          ((one++))
          echo "reached 1"
     elif [ ${dice} -eq 2 ]
     then
          ((two++))
          echo "reached 2"
     elif [ ${dice} -eq 3 ]
     then
          ((three++))
          echo "reached 3"
     elif [ ${dice} -eq 4 ]
```

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then
          ((four++))
          echo "reached 4"
     elif [ ${dice} -eq 5 ]
     then
          ((five++))
          echo "reached 5"
     elif [ ${dice} -eq 6 ]
     then
          ((six++))
          echo "reached 6"
     else
((key++))
done
echo "total dice_roll: $key"
echo "dice 1: $one "
echo "dice 2: $two "
echo "dice 3: $three "
echo "dice 4: $four "
echo "dice 5: $five "
echo "dice 6: $six"
if [[ $one -It $two && $one -It $three && $one -It $four && $one -It $five && $one -It $six ]]
then
     echo "Minimum Time reached dice 1 is: $one"
elif [[ $two -lt $one && $two -lt $three && $two -lt $four && $two -lt $five && $two -lt $six ]]
then
     echo "Minimum Time reached dice 2 is: $two"
elif [[ $three -It $one && $three -It $two && $three -It $four && $three -It $five && $three -It $six ]]
then
     echo "Minimum Time reached dice 3 is: $three"
elif [[ $four -It $one && $four -It $two && $four -It $three && $four -It $five && $four -It $six ]]
then
     echo "Minimum Time reached dice 4 is: $four"
elif [[ $five -It $one && $five -It $two && $five -It $three && $five -It $four && $five -It $six ]]
then
     echo "Minimum Time reached dice 5 is: $five"
```

```
elif [[ $six -It $one && $six -It $two && $six -It $four && $six -It $five ]] then
echo "Minimum Time reached dice 6 is : $six"
fi

echo "Maximum Time reached dice is : " ${dice_roll[@]}
```

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.

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ans)#!/bin/bash
```