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Dictionary / associative arrays / hash map are very useful data structures

Dictionary are key value map similar to HaspMap in Java or the one in python



```
#Note using Latest Bash Version 5.0

declare -A sounds
sounds[dog]="bark"
sounds[cow]="moo"
sounds[bird]="tweet"
sounds[wolf]="howl"

echo "Dog Sound " ${sounds[dog]} # Dog's sound
echo "All Animal Sound " ${sounds[@]} # All values
echo "Animal " ${!sounds[@]} # All keys
echo "Number of Animals " ${#sounds[@]} # Number of elements

dog] # Delete dog
```

#!/usr/local/bin/bash -x

+ declare -A sounds
+ sounds[dog]=bark
+ sounds[cow]=moo
+ sounds[bird]=tweet
+ sounds[wolf]=howl
+ echo 'Dog Sound ' bark
Dog Sound bark
+ echo 'All Animal Sound ' tweet bark moo howl
All Animal Sound tweet bark moo howl
+ echo 'Animal ' bird dog cow wolf
Animal bird dog cow wolf
+ echo 'Number of Animals ' 4
Number of Animals 4
+ unset 'sounds[dog]'





UC9

Store the Day and the Daily Wage along with the Total Wage

Storing Day & Daily

Wage

```
* IS_PART_TIME=1
* IS_FULL_TIME=2
* MAX_HRS_IN_MONTH=4
* EMP_RATE_PER_HR=28
+ NUM_WORKING_DAYS=28
* totalWorkHours=8
* totalWorkingDays=0
* [[ 0 -lt 4 ]]
+ [[ 0 -lt 20 ]]
+ (( totalWorkingDays++ ))
++ getWorkingHours 2
++ case $1 in
++ workHours=8
++ echo 8
+ workHours=8
+ totalWorkHours=8
++ calcDailyWage 8
++ local workHrs=8
++ wage=160
++ echo 160
+ empDailyWage["$totalWorkingDays"]=160
+ [[ B -lt 4 ]]
** calcDailyWage 8
** local workHrs=8
** wage=168
** echo 160

    totalSalary=160

* echo 'Daily Wage ' 168
Daily Wage 160
* echo 'All Keys ' 1
All Keys 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 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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