**Experiment No.3**

###### Aim:

To write a script that provides a set of functions to format the terminal as listed below:

* + - * + Colorize the given text
        + Show progress bar that fills over a specified time
        + Transform the case of the given text

**Codes:**

**1.Format.sh**

|  |
| --- |
| #!/bin/bash |
|  | style() |
|  | { |
|  | echo "\033[$1m" |
|  | } |
|  | red\_text() |
|  | { |
|  | printf "$(style "31")$1$(style "0")"; |
|  | } |
|  | green\_text() |
|  | { |
|  | printf "$(style "32")$1$(style "0")"; |
|  | } |
|  | yellow\_text() |
|  | { |
|  | printf "$(style "33")$1$(style "0")"; |
|  | } |
|  | blue\_text() |
|  | { |
|  | printf "$(style "34")$1$(style "0")"; |
|  | } |
|  | cyan\_text() |
|  | { |
|  | printf "$(style "36")$1$(style "0")"; |
|  | } |
|  | progress\_bar() |
|  | { |
|  | if [ -z "$1" ] ; then |
|  | echo "ERROR: The duration of the progress bar is required" >&2; exit 1; |
|  | Fi |
|  | local duration=$1 |
|  | local increment=$((100/$duration)) |
|  | for (( elapsed=0; elapsed<=100; elapsed=elapsed+increment )); do for ((done=0; done<elapsed; done=done+1)); do |
|  | printf "$(green\_text "▇")"; done |
|  | for ((remain=elapsed; remain<100; remain=remain+1)); do printf "$(cyan\_text "-")"; |
|  | Done |
|  | printf "| $(yellow\_text "$elapsed") %%" ; sleep 1 |
|  | printf "\r"; done |
|  | echo -e "\n"; |
|  | } |
|  |  |
|  | camelcase() |
|  | { |
|  | echo $1 | awk '{print toupper(substr($0,0,1))tolower(substr($0,2))}' |
|  | } |
|  |  |
|  | uppercase() |
|  | { |
|  | echo $1 | awk '{print toupper($0)}' |
|  | } |
|  | lowercase() |
|  | { |
|  | echo $1 | awk '{print tolower($0)}' |
|  | } |

**2.Test.sh**

|  |
| --- |
| #!/bin/bash |
|  | . /home/kartikeya/DA/EXP3/format.sh |
|  | uppercase "hello world" |
|  | camelcase "how are you?" |
|  | yellow\_text "wait for 10 seconds" |
|  | echo " " |
|  | progress\_bar 10 |

**Output**

