Write a shell script to change the values in a file(i.e sig.conf) according to the input passed to the script. The script should ask for all four inputs from the user & also validate the input.

Below are the details of input. In full bracket options are given, you have to restrict the user pass single value for each input from the provided options in the full bracket.

Input:-

- 1) Component Name [INGESTOR/JOINER/WRANGLER/VALIDATOR]
- 2) Scale [MID/HIGH/LOW]
- 3) View [Auction/Bid]
- 4) Count [single digit number]

Explanation of a conf file line.

<view> ; <scale> ; <component name> ; ETL ; vdopia-etl= <count> Note:- vdopiasample stands for Auction & vdopiasample-bid is for Bid

The script should change the values in the file according to the input provided. At a time only one line of the conf file should be altered.

```
sig.conf
vdopiasample-bid; HIGH; VALIDATOR; ETL; vdopia-etl= 9
update_conf.sh
#!/bin/bash
# Function to display error message and exit
function error exit {
  echo "$1" >&2
  exit 1
}
# Function to validate input
function validate_input {
  local input="$1"
  local options=("$@")
  for option in "${options[@]:1}"; do
    if [[ "$input" == "$option" ]]; then
      return 0
    fi
  done
  return 1
}
# Get user inputs with validation
read -p "Enter Component Name [INGESTOR/JOINER/WRANGLER/VALIDATOR]: "
component
validate_input "$component" "INGESTOR" "JOINER" "WRANGLER" "VALIDATOR" ||
error exit "Invalid Component Name."
read -p "Enter Scale [MID/HIGH/LOW]: " scale
validate_input "$scale" "MID" "HIGH" "LOW" || error_exit "Invalid Scale."
read -p "Enter View [Auction/Bid]: " view
```

```
validate_input "$view" "Auction" "Bid" || error_exit "Invalid View."
read -p "Enter Count [single digit number]: " count
if ! [[ "$count" =~ ^[0-9]$ ]]; then
  error_exit "Invalid Count. Please enter a single digit number."
fi
# Construct the new line based on user inputs
if [[ "$view" == "Auction" ]]; then
  view_value="vdopiasample"
  view_value="vdopiasample-bid"
fi
new_line="$view_value; $scale; $component; ETL; vdopia-etl= $count"
# Define the conf file
conf_file="sig.conf"
# Search for a matching line to replace
match_pattern="^vdopiasample.*; .*; .*; ETL; vdopia-etl= [0-9]$"
if ! grep -qE "$match_pattern" "$conf_file"; then
  error_exit "No matching line found to replace in $conf_file."
fi
# Replace the first matching line
sed -i "0,/$match_pattern/s/.*/$new_line/" "$conf_file"
echo "Updated $conf_file successfully."
```

## **Snap shots**



