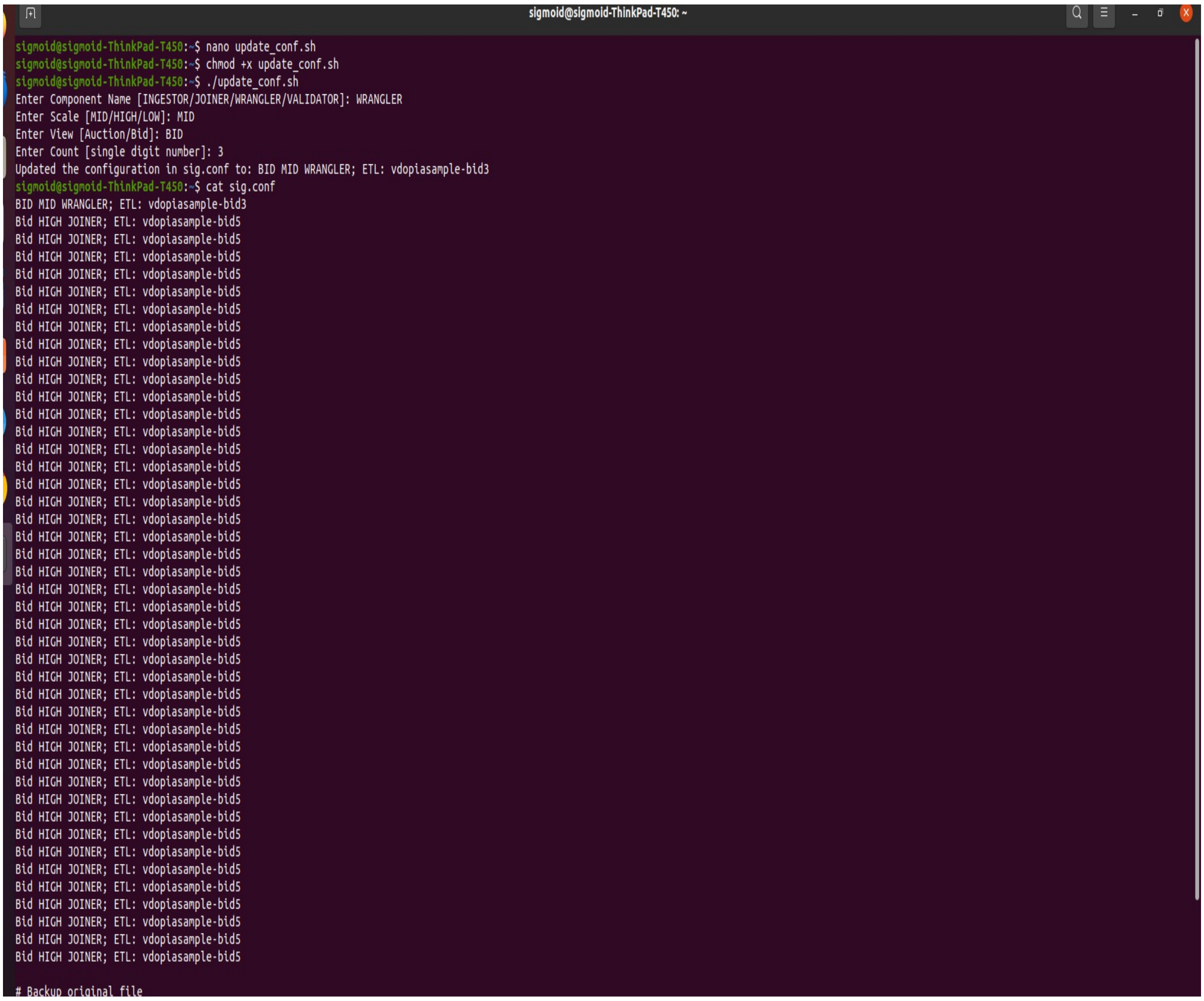
ASSIGNMENT ON SHELL SCRIPT

Write a shell script to change the values in a file(ie 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)ComponentName[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> <comporient name>; ETL: vdopia-eti<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

```
#!/bin/bash

# Function to validate user input
validate_input() {
    local input_value="$1"
    local valid_values=("$@")

    for value in "${valid_values[@]}"; do
        if [[ "$input_value" == "$value" ]]; then
            return 0
        fi
    done
    return 1
}

# Get user input
```

```
read -p "Enter Component Name
[INGESTOR/JOINER/WRANGLER/VALIDATOR]: "
component_name
while ! validate_input "$component_name" "INGESTOR"
"JOINER" "WRANGLER" "VALIDATOR"; do
    echo "Invalid component name. Please try again."
    read -p "Enter Component Name
[INGESTOR/JOINER/WRANGLER/VALIDATOR]: "
component_name
done

read -p "Enter Scale [MID/HIGH/LOW]: " scale
while ! validate_input "$scale" "MID" "HIGH" "LOW"; do
    echo "Invalid scale. Please try again."
    read -p "Enter Scale [MID/HIGH/LOW]: " scale
done

read -p "Enter View [Auction/Bid]: " view
while ! validate_input "$view" "Auction" "Bid"; do
    echo "Invalid view. Please try again."
    read -p "Enter View [Auction/Bid]: " view
done

read -p "Enter Count [single digit number]: " count
while ! [[ "$count" =~ ^[0-9]$ ]]; do
    echo "Invalid count. Please enter a single digit number (0-9)."
    read -p "Enter Count [single digit number]: " count
done

# Determine the view prefix
if [[ "$view" == "Auction" ]]; then
    view_prefix="vdopiasample"
else
    view_prefix="vdopiasample-bid"
fi
```

```
# Prepare the new line
new_line="$view $scale $component_name; ETL:
$view_prefix$count"

# Update the configuration file (sig.conf)
conf_file="sig.conf"

if [[ -f "$conf_file" ]]; then
    # Replace the first occurrence of the line that matches the
pattern
    sed -i.bak "0,/^[^;]*; ETL:/s/.*/$new_line/" "$conf_file"
    echo "Updated the configuration in $conf_file to: $new_line"
else
    echo "Configuration file $conf_file not found!"
fi
```



```
sigmoid@sigmoid-ThinkPad-T450:~$ nano update_conf.sh
sigmoid@sigmoid-ThinkPad-T450:~$ chmod +x update_conf.sh
sigmoid@sigmoid-ThinkPad-T450:~$ ./update_conf.sh
Enter Component Name [INGESTOR/JOINER/WRANGLER/VALIDATOR]: WRANGLER
Enter Scale [MID/HIGH/LOW]: MID
Enter View [Auction/Bid]: BID
Enter Count [single digit number]: 3
Updated the configuration in sig.conf to: BID MID WRANGLER; ETL: vdopiasample-bid3
sigmoid@sigmoid-ThinkPad-T450:~$ cat sig.conf
BID MID WRANGLER; ETL: vdopiasample-bid3
Bid HIGH JOINER; ETL: vdopiasample-bid5
Bid HIGH JOINER; ETL: vdopiasample-bid5
Bid HIGH JOINER; ETL: vdopiasample-bid5
Bid HIGH JOINER; ETL: vdopiasample-bid5
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# Backup original file
```