## Amir Mamdouh Helmy Shaker Fawry Assessment Task1

The first part in mygrep.sh Script

```
#!/bin/bash
show_number=false
invert_match=false
#handle options
while getopts "nv" opt; do
    case "Sopt" in
    n)
    show_number=true
    ;;
    v)

    invert_match=true;
    ;;
    *)
    echo "Wrong option"
    exit 1
    ;;
    esac
done
```

here I'm handling Options n and v I check If the user enter option n or v or both.

## Step 2

- Shift options to start focus on inputs

- start to validate inputs and check if there's any exceptions

Step3

- IFS refers to getting each line as an item not splitting items by spaces.
- read lines of \$filename

we interested to print line in two cases:

- 1- the word pattern exists and v option doesn't exist
- 2- the word pattern doesn't exist and v option exists

The most challenging part of the script was likely handling the combination of -n and -v options. This is because these options modify how the matching lines are displayed:

- The -n flag requires the script to output line numbers, which means the script needs to track the line numbers while reading the file.

The -v flag requires the script to invert printing lines, which means you have to print non-matching lines instead of matching ones.