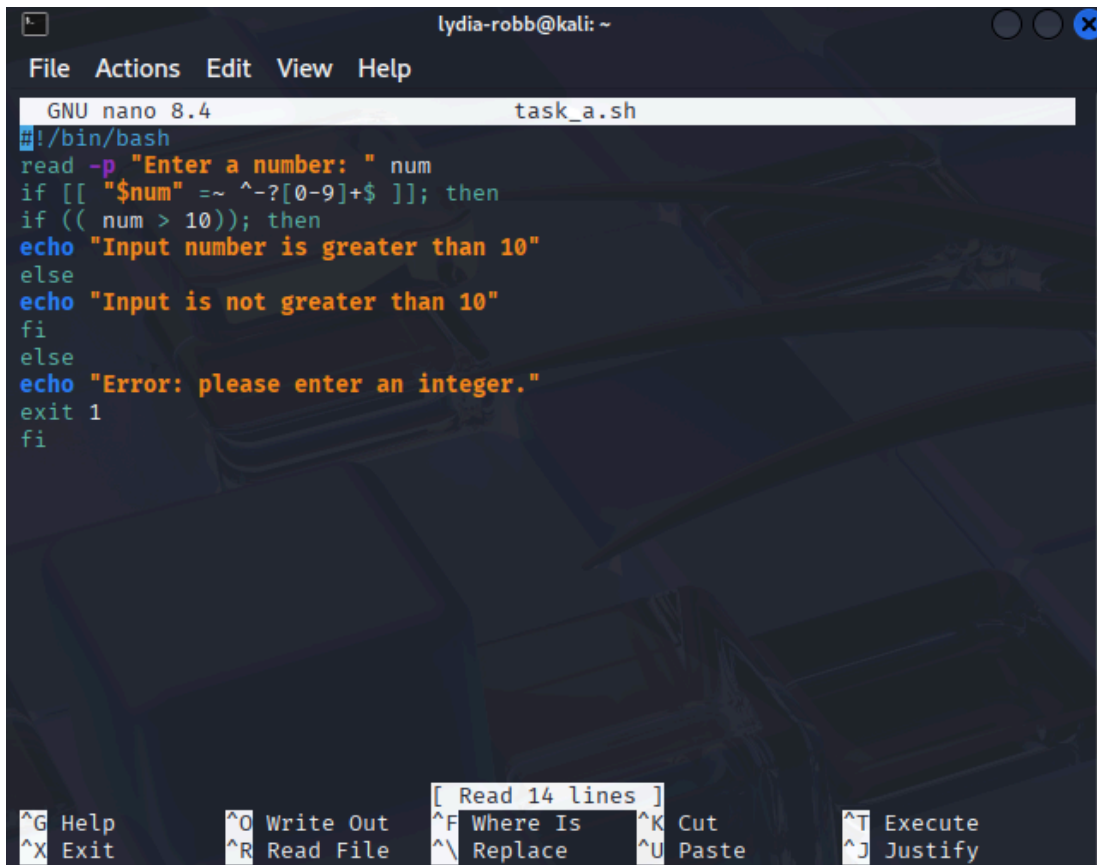


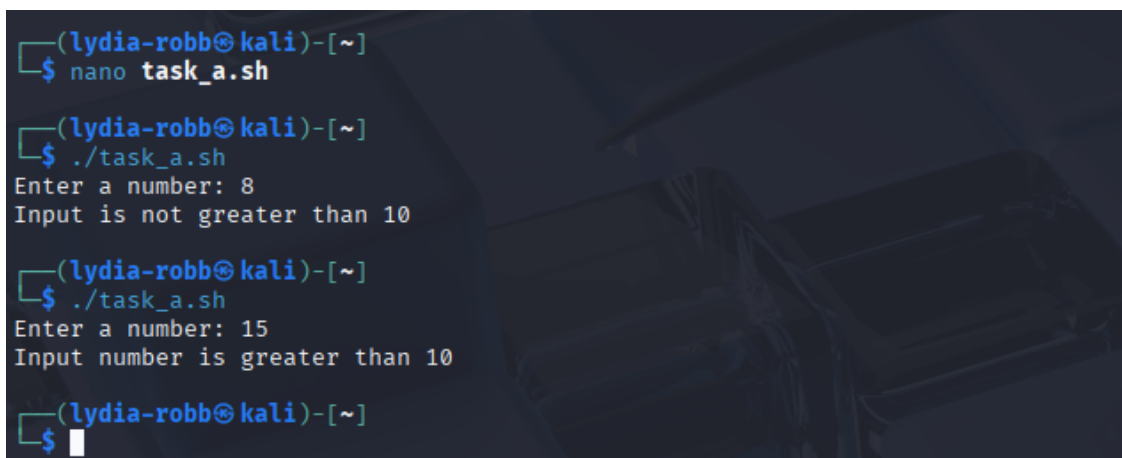
## Task A-



```
lydia-robb@kali: ~
File Actions Edit View Help
GNU nano 8.4 task_a.sh
#!/bin/bash
read -p "Enter a number: " num
if [[ "$num" =~ ^-[0-9]+$ ]]; then
if (( num > 10)); then
echo "Input number is greater than 10"
else
echo "Input is not greater than 10"
fi
else
echo "Error: please enter an integer."
exit 1
fi
```

[ Read 14 lines ]

<b>^G</b> Help	<b>^O</b> Write Out	<b>^F</b> Where Is	<b>^K</b> Cut	<b>^T</b> Execute
<b>^X</b> Exit	<b>^R</b> Read File	<b>^N</b> Replace	<b>^U</b> Paste	<b>^J</b> Justify



```
(lydia-robb@kali)-[~]
└─$ nano task_a.sh

(lydia-robb@kali)-[~]
└─$ ./task_a.sh
Enter a number: 8
Input is not greater than 10

(lydia-robb@kali)-[~]
└─$ ./task_a.sh
Enter a number: 15
Input number is greater than 10

(lydia-robb@kali)-[~]
└─$
```

## Task B-

```
File Actions Edit View Help
GNU nano 8.4 task_b.sh
#!/bin/bash
read -p "Enter a filename or directory name: " path
if [[ -d "$path" ]]; then
echo "Directory exists"
ls -la -- "$path"

elif [[ -f "$path" ]]; then
echo "It is a regular file, and the file exists"
echo "----- Contents of $path -----"
cat -- "$path"

else
echo "Path does not exist. Creating new file: $path"
touch -- "$path"
echo "Lydia Robb" > "$path"
echo "----- New file contents -----"
cat -- "$path"
fi

[ Read 18 lines ]
^G Help      ^O Write Out  ^F Where Is   ^K Cut        ^T Execute
^X Exit      ^R Read File  ^\ Replace    ^U Paste      ^J Justify
```

```
(lydia-robb@kali)-[~]
└─$ nano task_b.sh

(lydia-robb@kali)-[~]
└─$ ./task_b.sh
Enter a filename or directory name: my_new_file.txt
Path does not exist. Creating new file: my_new_file.txt
----- New file contents -----
Lydia Robb
```

```
File Actions Edit View Help
drwxr-xr-x  2 root    root      4096 Aug 29 15:53 xml
drwxr-xr-x  2 root    root      4096 Aug 29 15:49 xrdp
drwxr-xr-x  2 root    root      4096 Aug 29 15:49 zsh
-rw-r--r--  1 root    root       460 Jan 20 2023 zsh_command_not_found

[~] (lydia-robb@kali)
[~] $ ./task_b.sh
Enter a filename or directory name: /etc/hosts
It is a regular file, and the file exists
----- Contents of /etc/hosts -----
127.0.0.1    localhost
127.0.1.1    kali.lydia.domain.com  kali

# The following lines are desirable for IPv6 capable hosts
::1        localhost ip6-localhost ip6-loopback
ff02::1    ip6-allnodes
ff02::2    ip6-allrouters
```

```
[~] (lydia-robb@kali)
[~] $ ls -l task_b.sh
-rwxrwxr-x 1 lydia-robb lydia-robb 423 Oct 30 18:24 task_b.sh

[~] (lydia-robb@kali)
[~] $ ./task_b.sh
Enter a filename or directory name: /etc
Directory exists
total 1540
drwxr-xr-x 181 root    root      12288 Oct 30 17:38 .
drwxr-xr-x  20 root    root       4096 Oct 24 08:24 ..
-rw-r--r--   1 root    root      3981 May  6 14:25 adduser.conf
drwxr-xr-x  2 root    root     20480 Aug 29 15:52 alternatives
drwxr-xr-x  8 root    root      4096 Aug 29 15:52 apache2
drwxr-xr-x  2 root    root      4096 Aug 29 15:43 apparmor
drwxr-xr-x  9 root    root      4096 Aug 29 15:52 apparmor.d
drwxr-xr-x  8 root    root      4096 Aug 29 16:02 apt
drwxr-xr-x  2 root    root      4096 Aug 29 15:50 arp-scan
drwxr-xr-x  3 root    root      4096 Aug 29 15:51 avahi
-rw-r--r--   1 root    root      1997 May 19 14:11 bash.bashrc
-rw-r--r--   1 root    root        45 Jan 11 2025 bash_completion
drwxr-xr-x  2 root    root      4096 Aug 29 15:52 bash_completion.d
-rw-r--r--   1 root    root       367 Mar 14 2025 bindresvport.blacklist
drwxr-xr-x  2 root    root      4096 Apr  7 2025 binfmt.d
drwxr-xr-x  2 root    root      4096 Aug 29 15:51 bluetooth
drwxr-xr-x  3 root    root      4096 Aug 29 15:44 ca-certificates
-rw-r--r--   1 root    root      6422 Aug 29 15:50 ca-certificates.conf
```

Task C (Extra credit)-

```
lydia-robb@kali: ~
File Actions Edit View Help
GNU nano 8.4 check_dir.sh
#!/bin/bash
read -p "Enter your name: " name
read -p "Enter a directory path: " dir

if [[ -d "$dir" ]]; then
echo "Hello $name!"
echo "—— Contents of $dir ——"
ls -la -- "$dir"
else
echo "Sorry, the entered directory name is not a valid directory name."
fi

[ Read 11 lines ]
^G Help      ^O Write Out  ^F Where Is   ^K Cut
^X Exit      ^R Read File  ^\ Replace    ^U Paste
^T Execute   ^J Justify
```

```
(lydia-robb@kali)-[~]
└─$ ./check_dir.sh
Enter your name: Lydia Robb
Enter a directory path: /home
Hello Lydia Robb!
—— Contents of /home ——
total 52
drwxr-xr-x 13 root      root      4096 Oct  9 15:54 .
drwxr-xr-x 20 root      root      4096 Oct 24 08:24 ..
drwxrws+  2 root      lrobb005  4096 Oct 10 09:38 cyse_project
drwx----- 5 emma      admin     4096 Oct  9 16:12 emma
drwx----- 18 lydia-robb lydia-robb 4096 Oct 30 18:52 lydia-robb
drwx----- 5 olivia     payroll   4096 Oct  9 15:45 olivia
drwx----- 5 sophia     employee  4096 Oct  9 16:10 sophia
drwx----- 5 user1      user1     4096 Oct  4 14:34 user1
drwx----- 5 user2      user2     4096 Oct  4 14:35 user2
drwx----- 5 user3      user3     4096 Oct  5 13:34 user3
drwx----- 5 user4      user4     4096 Oct  5 13:35 user4
drwx----- 5 user5      user5     4096 Oct  5 13:36 user5
drwx----- 5 user6      user6     4096 Oct  5 13:40 user6
```

```
(lydia-robb@kali)-[~]
└─$ ./check_dir.sh
Enter your name: Lydia Robb
Enter a directory path: /fakepath
Sorry, the entered directory name is not a valid directory name.
```

```
(lydia-robb@kali)-[~]
└─$ ./check_dir.sh
Enter your name: Lydia Robb
Enter a directory path: /etc/systemd
Hello Lydia Robb!
—— Contents of /etc/systemd ——
total 60
drwxr-xr-x  5 root root  4096 Aug 29 15:50 .
drwxr-xr-x 181 root root 12288 Oct 30 17:38 ..
-rw-r--r--  1 root root  1429 Apr  3  2025 journald.conf
-rw-r--r--  1 root root  1785 Apr  7  2025 logind.conf
drwxr-xr-x  2 root root  4096 Aug 29 15:48 network
-rw-r--r--  1 root root  1213 Apr  3  2025 networkd.conf
-rw-r--r--  1 root root   879 Apr  3  2025 pstore.conf
-rw-r--r--  1 root root  1102 Apr  3  2025 sleep.conf
drwxr-xr-x 11 root root  4096 Aug 29 15:53 system
-rw-r--r--  1 root root  2342 Apr  7  2025 system.conf
-rw-r--r--  1 root root  1076 Apr  7  2025 timesyncd.conf
drwxr-xr-x  6 root root  4096 Aug 29 15:52 user
-rw-r--r--  1 root root  1768 Apr  7  2025 user.conf
```