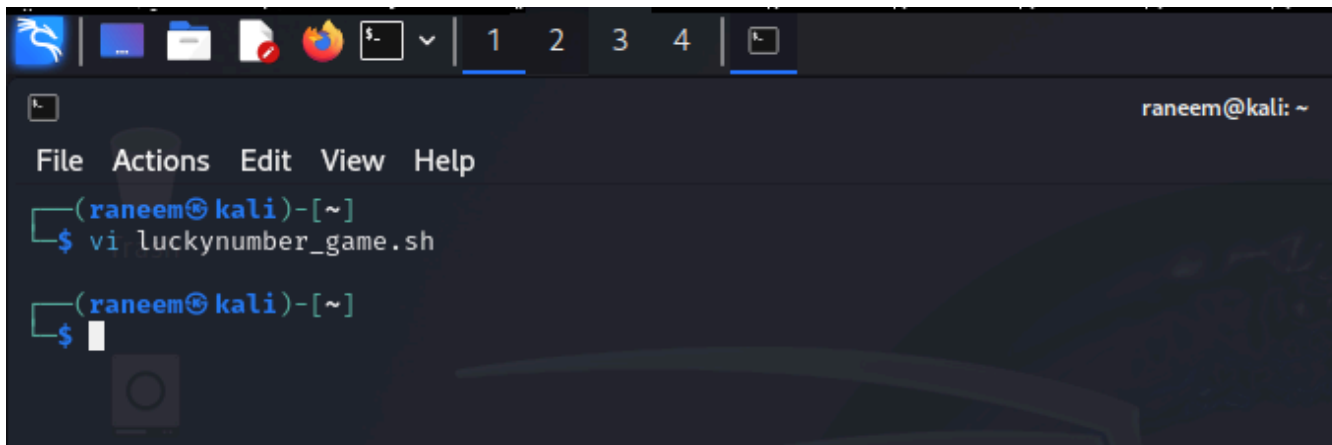


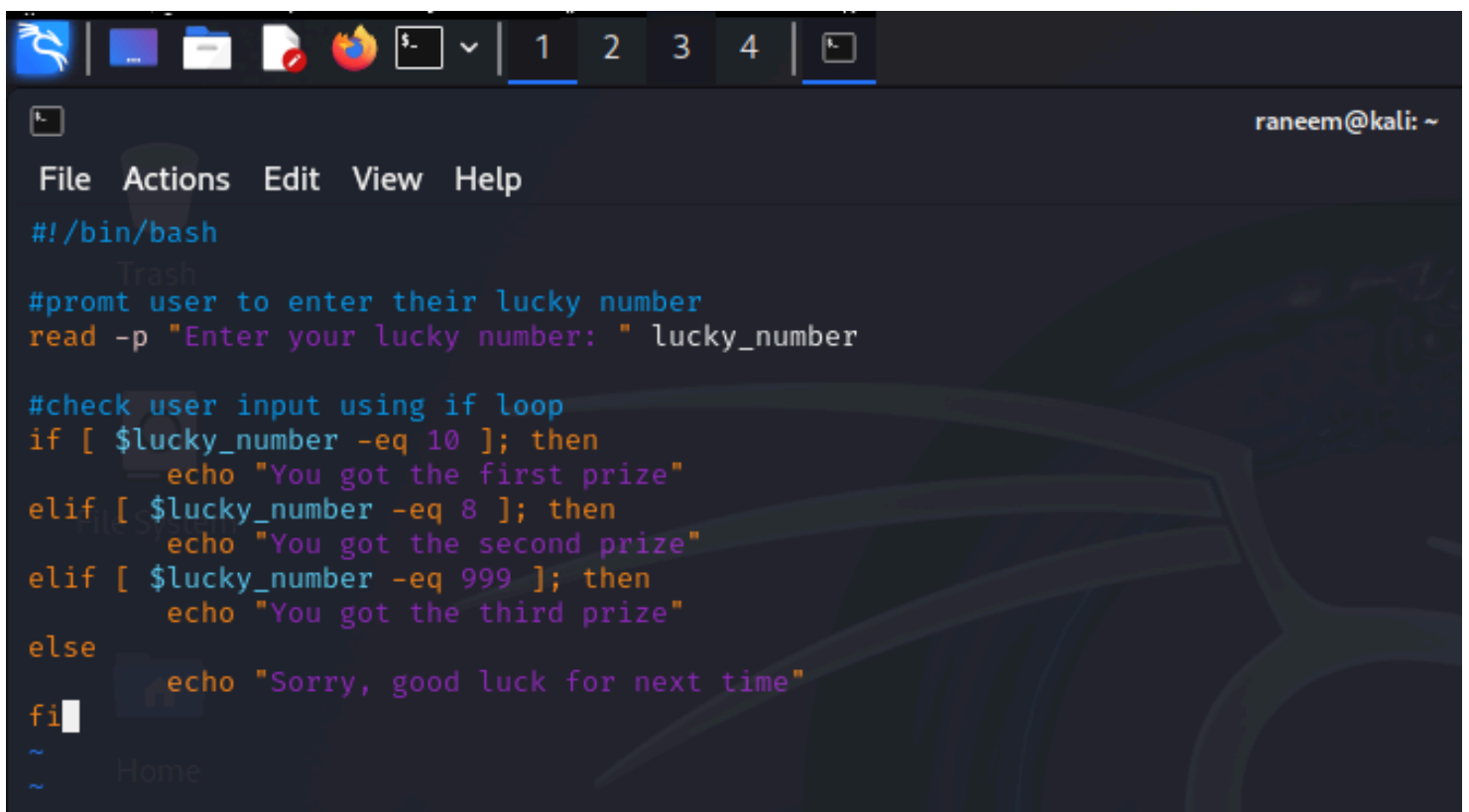
TASK A – Shell Scripting

Write a shell script to complete the following steps:

1. Prompt the user to input his/her lucky number
2. If the input number is equal to 10, then print the message “You got the first prize.”
3. If the input number is equal to 8, then print the message – “You got the second prize.”
4. If the input number is equal to 999, then print the message – “You got the third prize.”
5. If None of the above conditions are true, then print the message – “Sorry, good Luck for the next time.”



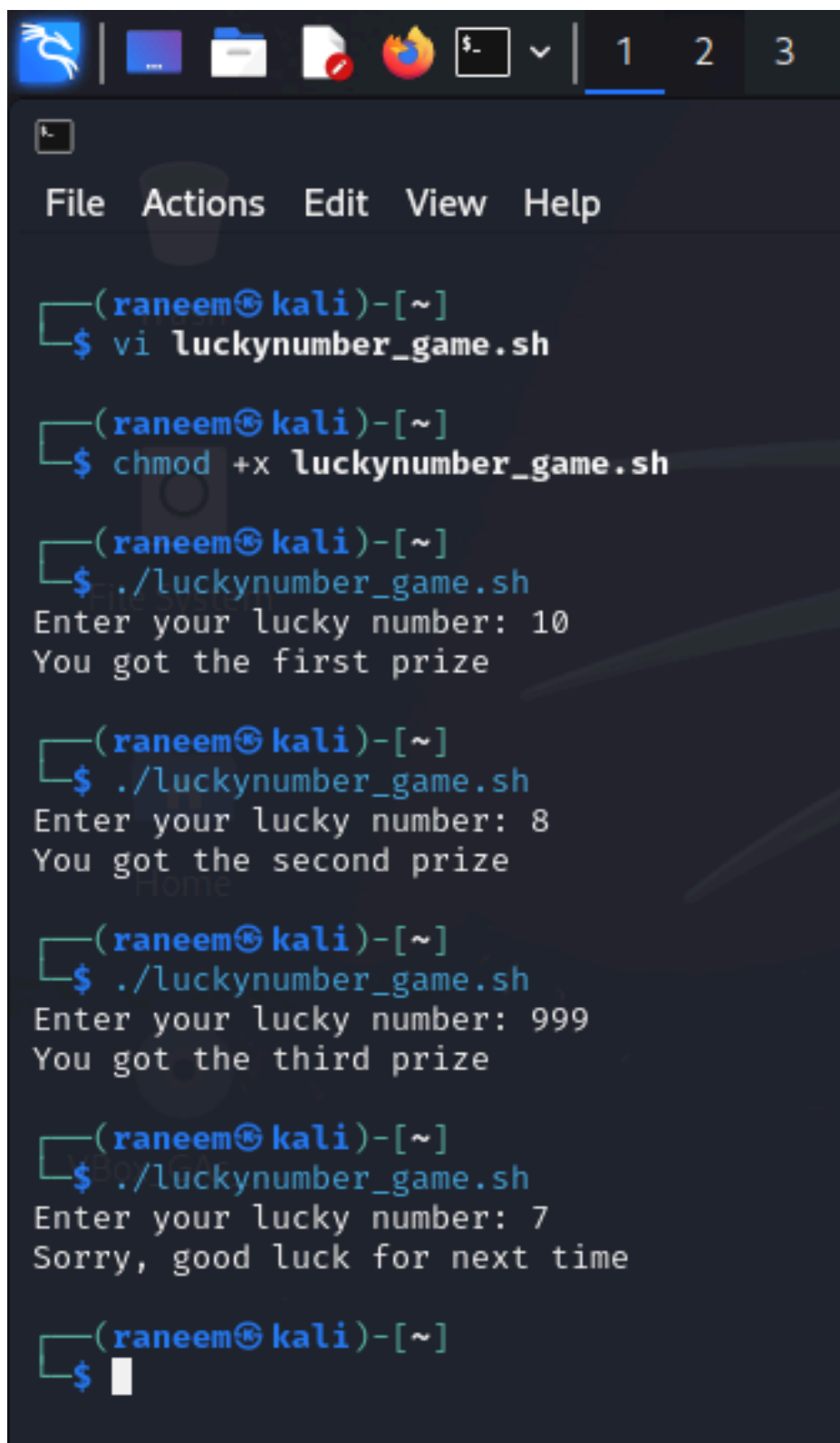
A terminal window on a Kali Linux system. The window title is "raneem@kali: ~". The terminal shows the command `vi luckynumber_game.sh` being executed. The prompt is `(raneem@kali)-[~]` and the cursor is at the end of the command line.



A terminal window on a Kali Linux system showing the content of the shell script `luckynumber_game.sh`. The window title is "raneem@kali: ~". The terminal shows the following script content:

```
#!/bin/bash
#prompt user to enter their lucky number
read -p "Enter your lucky number: " lucky_number

#check user input using if loop
if [ $lucky_number -eq 10 ]; then
    echo "You got the first prize"
elif [ $lucky_number -eq 8 ]; then
    echo "You got the second prize"
elif [ $lucky_number -eq 999 ]; then
    echo "You got the third prize"
else
    echo "Sorry, good luck for next time"
fi
```



The image shows a terminal window with a dark background and a light-colored text. At the top, there is a taskbar with several icons: a blue dragon-like logo, a purple icon, a folder icon, a document icon with a red circle, a Firefox icon, and a terminal icon with a dropdown arrow. To the right of the taskbar are three numbered tabs: 1, 2, and 3. The terminal window has a menu bar with 'File', 'Actions', 'Edit', 'View', and 'Help'. The main content of the terminal shows a series of commands and their outputs:

```
(raneem@kali)-[~]
└─$ vi luckynumber_game.sh

(raneem@kali)-[~]
└─$ chmod +x luckynumber_game.sh

(raneem@kali)-[~]
└─$ ./luckynumber_game.sh
Enter your lucky number: 10
You got the first prize

(raneem@kali)-[~]
└─$ ./luckynumber_game.sh
Enter your lucky number: 8
You got the second prize

(raneem@kali)-[~]
└─$ ./luckynumber_game.sh
Enter your lucky number: 999
You got the third prize

(raneem@kali)-[~]
└─$ ./luckynumber_game.sh
Enter your lucky number: 7
Sorry, good luck for next time

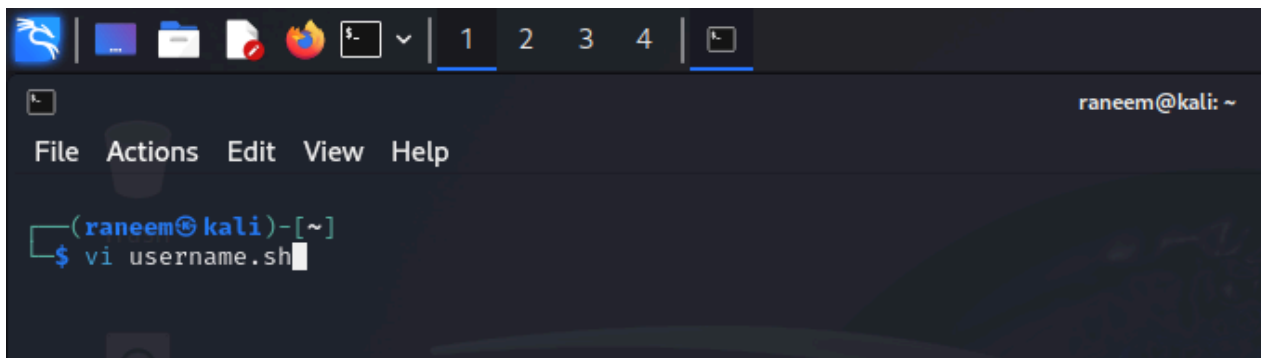
(raneem@kali)-[~]
└─$
```

TASK B – Write a shell script to validate your input

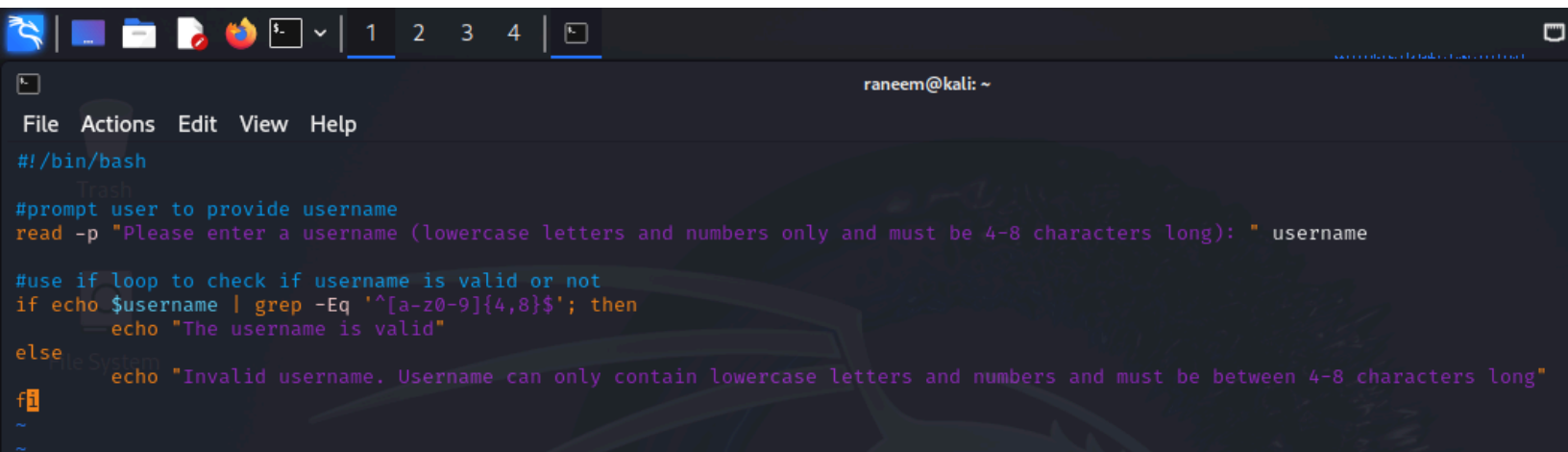
1. Prompt the user to provide a username which should consists of characters and numbers only, and check if the following requirements are satisfied:
2. Only lower-case letters [a-z] and numeric characters [0-9] are allowed
3. The length must be between 4 to 8 digits

Test your script with the following inputs, and submit the screenshot for the script and all four outputs:

1. Your input with one upper-case letter
2. The input has length less than 4 digits
3. The input has a length larger than 8 digits
4. Your input is lower-case and should have length between 4 to 8



```
(raneem@kali)-[~]
└─$ vi username.sh
```



```
#!/bin/bash
#prompt user to provide username
read -p "Please enter a username (lowercase letters and numbers only and must be 4-8 characters long): " username

#use if loop to check if username is valid or not
if echo $username | grep -Eq '^[a-z0-9]{4,8}$'; then
    echo "The username is valid"
else
    echo "Invalid username. Username can only contain lowercase letters and numbers and must be between 4-8 characters long"
fi
```

```
(raneem@kali)-[~]  
└─$ vi username.sh
```

```
(raneem@kali)-[~]  
└─$ chmod +x username.sh
```

```
(raneem@kali)-[~]  
└─$ ./username.sh
```

Please enter a username (lowercase letters and numbers only and must be 4-8 characters long): Berry
Invalid username. Username can only contain lowercase letters and numbers and must be between 4-8 characters long

```
(raneem@kali)-[~]  
└─$ ./username.sh
```

Please enter a username (lowercase letters and numbers only and must be 4-8 characters long): ber
Invalid username. Username can only contain lowercase letters and numbers and must be between 4-8 characters long

```
(raneem@kali)-[~]  
└─$ ./username.sh
```

Please enter a username (lowercase letters and numbers only and must be 4-8 characters long): strawberry
Invalid username. Username can only contain lowercase letters and numbers and must be between 4-8 characters long

```
(raneem@kali)-[~]  
└─$ ./username.sh
```

Please enter a username (lowercase letters and numbers only and must be 4-8 characters long): berry
The username is valid

```
(raneem@kali)-[~]  
└─$ ./username.sh
```

Please enter a username (lowercase letters and numbers only and must be 4-8 characters long): berry8
The username is valid

```
(raneem@kali)-[~]  
└─$
```