

**Birla Institute of technology and Science, Pilani**

**GROUP J | SET – 8**

**Secured Authentication System**

**Computer Programming**

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**Video Explanation:** <https://youtu.be/7WC9G1y0a-c>

# Contents

1.	User Verification	3
2.	Welcome Screen	4-6
3.	Invalid Attempts	7-8
4.	Log Reports	9

# User Verification

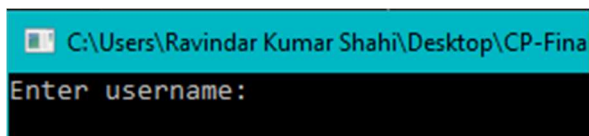
SAS\_BITS.exe offers login credential for five members of Group J.

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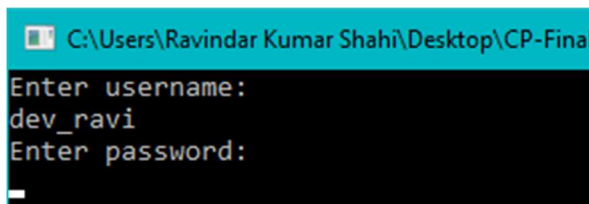
For more information about SAS\_BITS, see [“This video demonstration”](#) and [“GitHub’s repo”](#).

## User Login

1. Open SAS\_BITS.exe.
2. The Initial window appears and prompts for username,



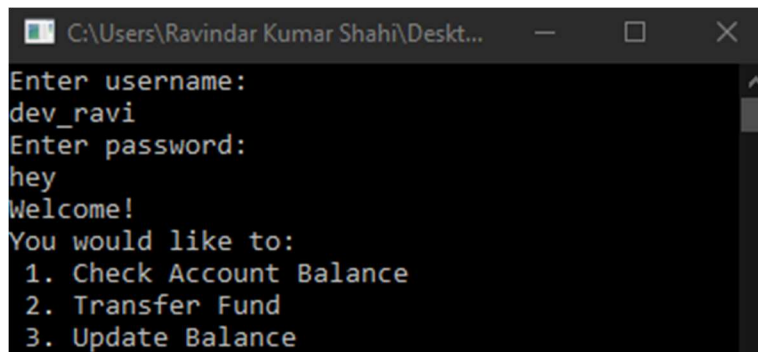
3. After entering username, it prompts for password:



Providing the valid credentials i.e., username and password, will take you to the welcome screen of SAS\_BITS.

# Welcome Screen

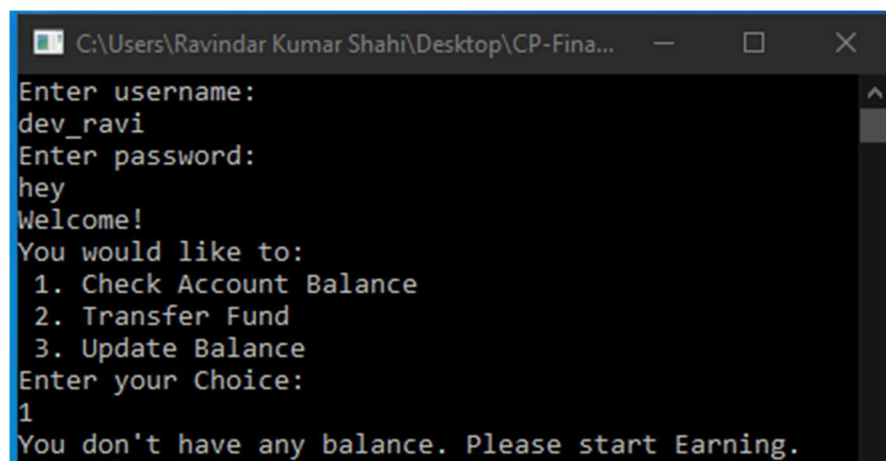
1. After validating the legitimate credentials, users will see the welcome screen as soon below:

A screenshot of a Windows terminal window. The title bar shows the path 'C:\Users\Ravindar Kumar Shahi\Desktop...'. The terminal text is as follows:

```
Enter username:
dev_ravi
Enter password:
hey
Welcome!
You would like to:
  1. Check Account Balance
  2. Transfer Fund
  3. Update Balance
```

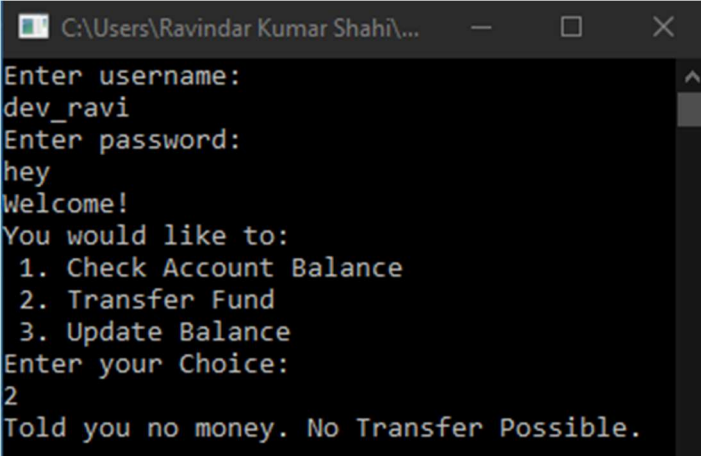
Welcome screen has three options:

1. Check Account Balance
  2. Transfer Fund
  3. Update Balance
2. Selection of these options are by **numbers 1, 2 and 3**.
    - a. Choice 1:

A screenshot of a Windows terminal window. The title bar shows the path 'C:\Users\Ravindar Kumar Shahi\Desktop\CP-Fina...'. The terminal text is as follows:

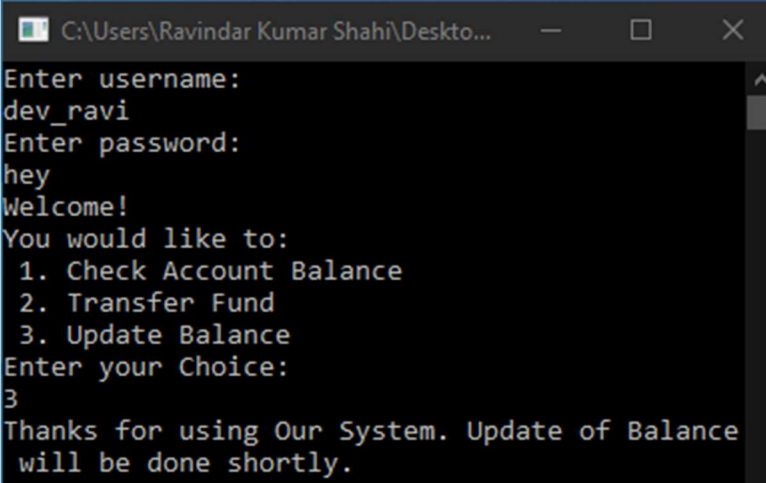
```
Enter username:
dev_ravi
Enter password:
hey
Welcome!
You would like to:
  1. Check Account Balance
  2. Transfer Fund
  3. Update Balance
Enter your Choice:
1
You don't have any balance. Please start Earning.
```

b. Choice 2:



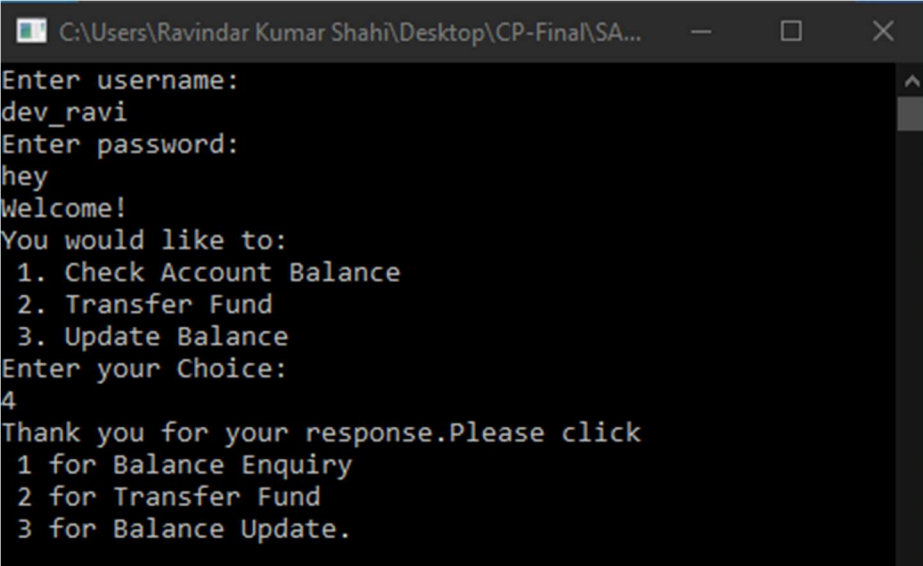
```
C:\Users\Ravindar Kumar Shahi\...
Enter username:
dev_ravi
Enter password:
hey
Welcome!
You would like to:
  1. Check Account Balance
  2. Transfer Fund
  3. Update Balance
Enter your Choice:
2
Told you no money. No Transfer Possible.
```

c. Choice 3:



```
C:\Users\Ravindar Kumar Shahi\Desko...
Enter username:
dev_ravi
Enter password:
hey
Welcome!
You would like to:
  1. Check Account Balance
  2. Transfer Fund
  3. Update Balance
Enter your Choice:
3
Thanks for using Our System. Update of Balance
will be done shortly.
```

d. Wrong Choice:



```
C:\Users\Ravindar Kumar Shahi\Desktop\CP-Final\SA...
Enter username:
dev_ravi
Enter password:
hey
Welcome!
You would like to:
1. Check Account Balance
2. Transfer Fund
3. Update Balance
Enter your Choice:
4
Thank you for your response. Please click
1 for Balance Enquiry
2 for Transfer Fund
3 for Balance Update.
```

Wrong choice gives you set of instruction, stating how and what a particular option does.

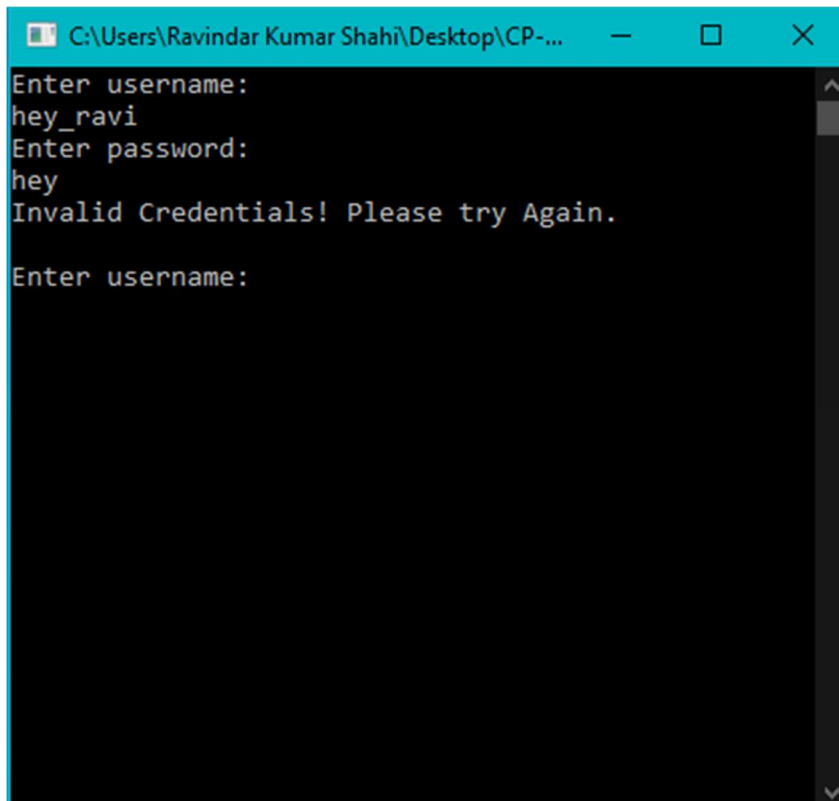
# Invalid Attempts

Scenario of Invalid attempts comes when:

1. User forgets its username and password
2. False user is trying to login

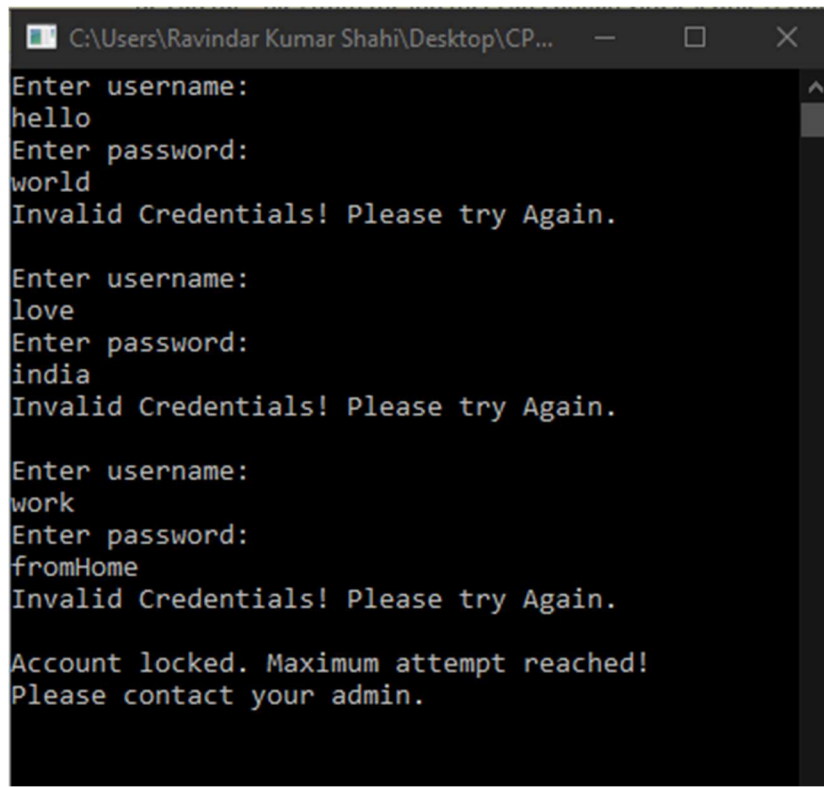
Invalid Attempts are limited to 3 times, once user exceeds this limit his account is blocked. After getting blocked, it is not allowed to enter username and password. It needs to contact to the responsible administrator to get its valid credentials.

The first invalid attempt, gives you warning of invalid credential:

A screenshot of a Windows command prompt window. The title bar is blue and shows the path 'C:\Users\Ravindar Kumar Shahi\Desktop\CP-...'. The command prompt has a black background with white text. The text shows a login attempt: 'Enter username:' followed by 'hey\_ravi', 'Enter password:' followed by 'hey', and then the message 'Invalid Credentials! Please try Again.' followed by 'Enter username:'.

```
C:\Users\Ravindar Kumar Shahi\Desktop\CP-...  
Enter username:  
hey_ravi  
Enter password:  
hey  
Invalid Credentials! Please try Again.  
Enter username:
```

The three invalid attempt, blocks your account and generates log for administrator.



```
C:\Users\Ravindar Kumar Shahi\Desktop\CP...
Enter username:
hello
Enter password:
world
Invalid Credentials! Please try Again.

Enter username:
love
Enter password:
india
Invalid Credentials! Please try Again.

Enter username:
work
Enter password:
fromHome
Invalid Credentials! Please try Again.

Account locked. Maximum attempt reached!
Please contact your admin.
```



# LOG REPORTS

Wrong attempts will keep track of invalid credentials by generating logs for administrator.

Report will contain Day, Date, Time, Year with False user credentials.

 sas\_bits\_log.txt - Notepad

File Edit Format View Help

```
Invalid attempt on: Thu Sep 16 20:20:20 2021
Username: hey_worl, Password: ravi
Invalid attempt on: Thu Sep 16 20:20:40 2021
Username: hey_raghu, Password: ods_tarnu
Invalid attempt on: Fri Sep 17 00:13:49 2021
Username: hey_ravi, Password: dev
Invalid attempt on: Fri Sep 17 00:43:03 2021
Username: hey_ravi, Password: hey
Invalid attempt on: Fri Sep 17 02:01:27 2021
Username: hello, Password: world
Invalid attempt on: Fri Sep 17 02:01:34 2021
Username: love, Password: india
Invalid attempt on: Fri Sep 17 02:01:38 2021
Username: work, Password: fromHome
```

