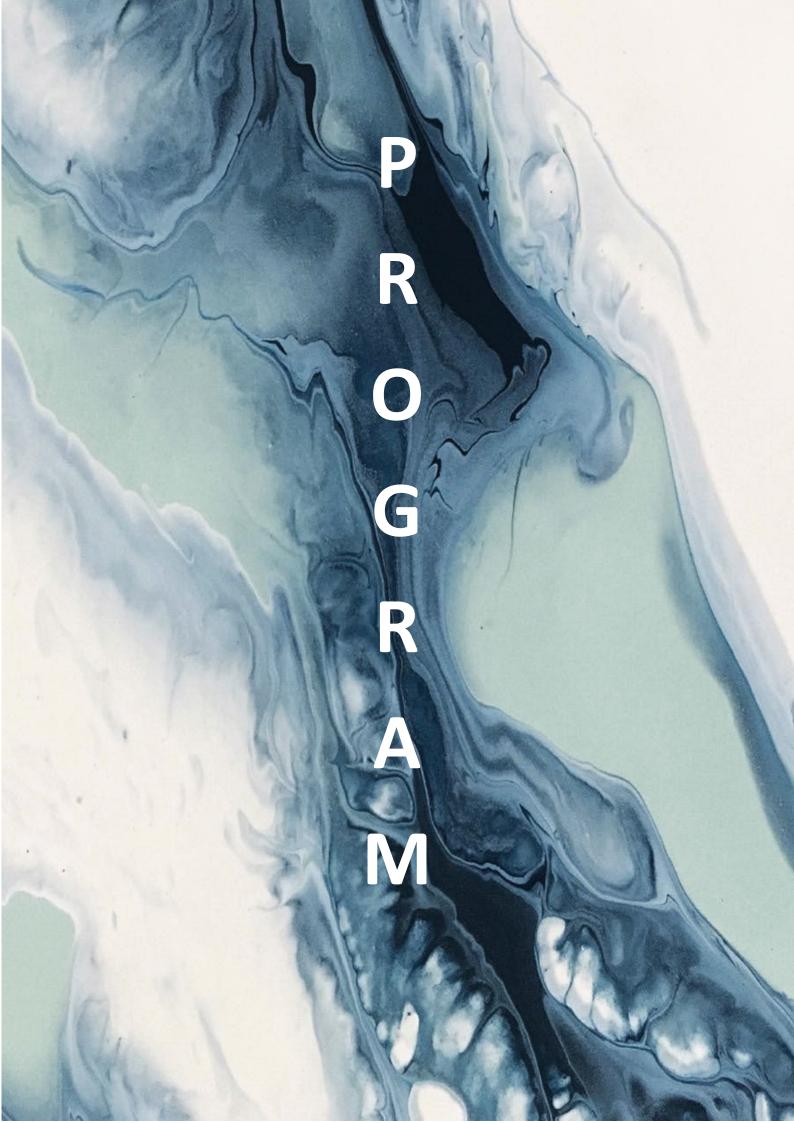
PASSWORD MANAGER

BY:

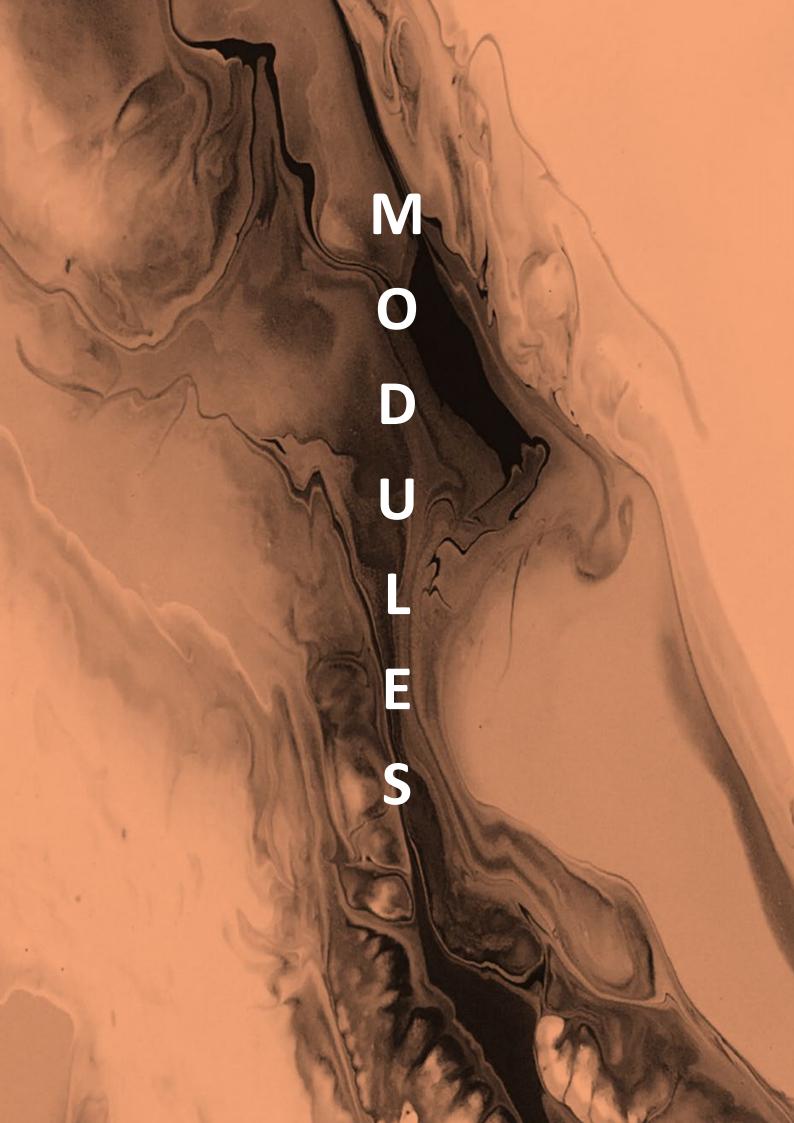
HASHMEET SINGH SAINI

INTRODUCTION

Password Manager is a program that can manage the unlimited number of passwords of various users. Each user only has to remember his/her single unique ID and password that will give him access to all of his passwords. This menu driven program helps the user to add, change, delete and view the passwords without any hassle. It can also tell if the user's entered password is weak or strong and can suggest a strong password as per user's wish. The user can simply enter the name of domain whose password he wants to see or delete.



```
#main menu
import mysql.connector as mc
con=mc.connect(host="localhost", user="root", password="200913")
cur=con.cursor()
s="use passdata"
cur.execute(s)
print('WELCOME')
while True:
                         ')
    print('
                MENU:
    print('Press 1: To create an account')
    print('Press 2: LOGIN')
    print('Press 3: To exit')
    OPTION=int(input('Enter the desired option'))
    if OPTION==1:
        print('Thanks for choosing our services')
        userid=int(input('Enter a unique userid'))
        username=input('Enter the Account Username')
        password=input('Enter the Account Password')
        pswd=input('Please re-enter the password')
        s='insert into logintable values({},"{}","{}")'.format(userid,username,password)
        cur.execute(s)
        con.commit()
        con.close()
        print(' ')
        print('NOTE:
                       Remember the filled details for accessing the account in future')
        print('Congratulations! Your account is successfully made')
        break
    elif OPTION==2:
        print('Welcome Back')
        userid=int(input('Enter your unique userid'))
        password=input('Enter the password')
        pass1='select Password from logintable where UserID={}'.format(userid)
        cur.execute(pass1)
        d=cur.fetchall()
        print(' ')
        if password==d[0][0]:
            s='create view v1 as select*from passtable where userid={}'.format(userid)
            cur.execute(s)
                                  ')
            print('
                        MENU:
            print('To add a password press 1')
            print('To change the password press 2')
            print('To delete a password press 3')
            print('To show the password press 4')
            print('To exit to Main Menu press 5')
            print(' ')
            import PASSWORD
            while True:
                CHOICE=int(input('Please enter your choice:'))
                if CHOICE==1:
                    PASSWORD.add pass()
                elif CHOICE==2:
                    PASSWORD.edit pass()
                elif CHOICE==3:
                    PASSWORD.delete pass()
                elif CHOICE==4:
                    PASSWORD.view pass()
                elif CHOICE==5:
                    m='drop view v1'
                    cur.execute(m)
                    break
        else:
            print(' ')
            print('password does not match')
    elif OPTION==3:
        exitapp=input('Are you sure you want to exit')
        if exitapp=='yes':
            break
        else:
            continue
```



1)ADDING A PASSWORD:

```
#adding a new password
def add pass():
    dname=input("please enter the name of domain")
    uname=input ("please enter the username")
    uid=input('please enter the unique userid')
    import mysql.connector as mc
    con=mc.connect(host="localhost", user="root", password="200913")
    cur=con.cursor()
    s="use passdata"
    cur.execute(s)
    print("press 1:user added password, 2:auto generated password")
    x=int(input("please enter your choice"))
    if x==1:
        n=0
        while n==0:
            pass1=input('enter the password')
            a, b=0, 0
            for i in range(0,len(pass1)):
                if pass1[i].isnumeric():
                elif pass1[i] in ['!','@','$','%','^','&','*','/','?',':',';']:
                    b+=1
            if len(pass1) \le 7:
                print('Password must be of 8 characters')
                print('Weak Password','Password must contain atleast two digits')
                continue
            elif b<1:</pre>
                print('Weak Password')
                print('Password must contain atleast one special character out of the following
                print(['!','@','$','%','^','&','*','/','?',':',';'])
                continue
            else:
                print('strong password')
        pass2=input("please re-enter the password")
        if pass1==pass2:
            s1="insert into passtable values(%s, %s, %s, %s)"
            cur.execute(s1, (dname, uname, pass1, uid))
            con.commit()
            con.close()
            print("the password is successfully added")
            print("the passwords don't match please try again")
    elif x==2:
        pass3=""
        import random as r
        pass3+=chr(r.randint(65,90))
        pass3+=chr(r.randint(48,57))
        pass3+=chr(r.randint(97,122))
        pass3+=chr(r.randint(97,122))
        pass3+=chr(r.randint(97,122))
        pass3+=chr(r.randint(97,122))
        pass3+=chr(r.randint(97,122))
        pass3+=chr(r.randint(97,122))
        print("your new password is",pass3)
        s1="insert into passtable values(%s, %s, %s, %s)"
        cur.execute(s1, (dname, uname, pass3, uid))
        con.commit()
        con.close()
        print("the password is successfully added")
```

2) EDITING A PASSWORD:

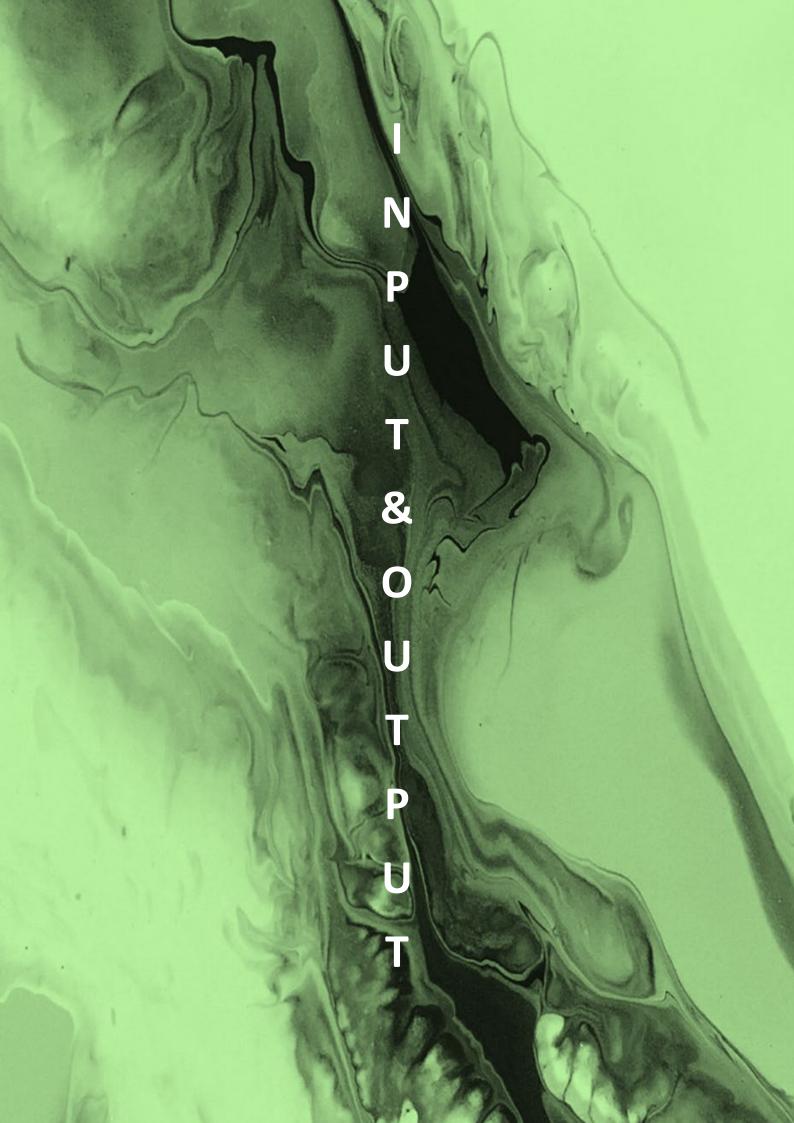
```
#changing your password
def edit pass():
    uname=input('Please enter your username:')
    import mysql.connector as mc
    con=mc.connect(host="localhost", user="root", password="200913")
    cur=con.cursor()
    s="use passdata"
    cur.execute(s)
    print ("Press 1:User added password, 2:Auto-generated password")
    x=int(input("Please enter your choice:"))
    if x==1:
        n=0
        while n==0:
            pass1=input('Enter the password:')
            a,b=0,0
            for i in range(0,len(pass1)):
                if pass1[i].isnumeric():
                    a+=1
                elif pass1[i] in ['!','@','$','%','^','&','*','/','?',':',';']:
                    b+=1
            if len(pass1) \le 7:
                print('Password must be of 8 characters')
            elif a<2:
                print('Weak Password','Password must contain atleast two digits')
                continue
            elif b<1:
                print('Weak Password')
                print('Password must contain atleast one special character out of the following
                print(['!','@','$','%','^','&','*','/','?',':',';'])
            else:
                print('Strong Password')
                n=1
        pass2=input("Please re-enter the password:")
        if pass1==pass2:
            s1="update passtable set password='{}' where username='{}'".format(pass1,uname)
            cur.execute(s1)
            con.commit()
            con.close()
            print("The Password is successfully changed")
            print("The Passwords don't match please try again")
    elif x==2:
        pass3=''
        import random as r
        pass3+=chr(r.randint(65,90))
        pass3+=chr(r.randint(48,57))
        pass3+=chr(r.randint(97,122))
        pass3+=chr(r.randint(97,122))
        pass3+=chr(r.randint(97,122))
        pass3+=chr(r.randint(97,122))
        pass3+=chr(r.randint(97,122))
        pass3+=chr(r.randint(97,122))
        print("your new password is",pass3)
        pass4=input('Re-enter the password: ')
        s1="update passtable set password='{}' where username='{}'".format(pass4,uname)
        cur.execute(s1)
        con.commit()
        con.close()
        print("The password is successfully changed")
```

3) DELETING A PASSWORD:

```
#deleting a password
def delete_pass():
    dname=input("please enter the name of domain")
   uid=input("please enter unique userid")
    import mysql.connector as mc
    con=mc.connect(host="localhost", user="root", password="200913")
    cur=con.cursor()
    s="use passdata
   cur.execute(s)
    s1="select * from passtable where Domain name='{}' and UserID={}".format(dname,uid)
    cur.execute(s1)
   d=cur.fetchall()
    if len(d)>=1: #password exists
        s2="delete from passtable where Domain name='{}' and UserID={}".format(dname,uid)
        cur.execute(s2)
        con.commit()
        con.close()
        print("your password is successfully deleted")
        print("the passwords doesn't exist")
```

4) VIEWING A PASSWORD:

```
# #viewing a password
#
def view_pass():
    dname=input("please enter the name of domain")
    uid=input("please enter the unique userid")
    import mysql.connector as mc
    con=mc.connect(host="localhost", user="root", password="200913")
    cur=con.cursor()
    s="use passdata"
    cur.execute(s)
    s1="select * from v1 where Domain_name='{}' and UserId={}".format(dname,uid)
    cur.execute(s1)
    d=cur.fetchall()
    if len(d)>=1:
        print("the password is",d)
    else:
        print("the password doesn't exist")
```



FUNCTIONS RELATED TO LOGINTABLE

1) ADD A NEW USER

• Before adding a user

```
mysql> select*from logintable;
+-----+
| UserID | Username | Password |
+----+
| 101 | Vaibhav Gupta | Cr7ruler |
+-----+
```

Input

```
WELCOME

MENU:

Press 1: To create an account

Press 2: LOGIN

Press 3: To exit

Enter the desired option1

Thanks for choosing our services

Enter a unique userid102

Enter the Account UsernameSaksham Mehta

Enter the Account PasswordIjklmn0

Please re-enter the passwordIjklmn0

NOTE:

Remember the filled details for accessing the
```

NOTE: Remember the filled details for accessing the account in future Congratulations! Your account is successfully made

• After adding a user

```
mysql> select*from logintable;
+-----+
| UserID | Username | Password |
+-----+
| 101 | Vaibhav Gupta | Cr7ruler |
| 102 | Saksham Mehta | Ijklmn0 |
+-----+
```

2) LOGIN FOR AN EXISTING USER

```
WELCOME
     MENU:
Press 1: To create an account
Press 2: LOGIN
Press 3: To exit
Enter the desired option2
Welcome Back
Enter your unique userid101
Enter the passwordCr7ruler
     MENU:
To add a password press 1
To change the password press 2
To delete a password press 3
To show the password press 4
To exit to Main Menu press 5
Please enter your choice:5
     MENU:
Press 1: To create an account
Press 2: LOGIN
Press 3: To exit
Enter the desired option3
Are you sure you want to exityes
```

FUNCTIONS RELATED TO PASSTABLE

1) PASSWORD ADDED MANUALLY:

Before adding the password

mysql> SELECT*	FROM passtable;		.
Domain_name	Username	Password	UserId
Google Google Facebook Snapchat Snapchat Instagram	vaibhavgupta2002@gmail.com mehta\$aksh@gmail.com Vaibhavvv.Gupta02 Smehta07 Vaibhav02gupt@ Vaibh@vGuptaaa02 mehta@saksham	P0pysxua L7jkgxgg 20atpug% K5drmcfl H3ropynf L2hqgrlh \$ecret12	101 102 101 102 101 101 102
7 rows in set	(0.00 sec)	+	++

• Input

```
WELCOME
     MENU:
Press 1: To create an account
Press 2: LOGIN
Press 3: To exit
Enter the desired option2
Welcome Back
Enter your unique userid102
Enter the passwordIjklmn0
     MENU:
To add a password press 1
To change the password press 2
To delete a password press 3
To show the password press 4
To exit to Main Menu press 5
Please enter your choice:1
please enter the name of domainFacebook
please enter the usernameSakshammeht@ .
please enter the unique userid102
press 1:user added password, 2:auto generated password
please enter your choice1
enter the passwordsaksham12%
strong password
please re-enter the passwordsaksham12%
the password is successfully added
```

After adding the password

+ Domain_name	Username	Password	UserId
Google Google Facebook Snapchat Snapchat Instagram Instagram Facebook	vaibhavgupta2002@gmail.com mehta\$aksh@gmail.com Vaibhavvv.Gupta02 Smehta07 Vaibhav02gupt@ Vaibh@vGuptaaa02 mehta@saksham Sakshammeht@	P0pysxua L7jkgxgg 20atpug% K5drmcfl H3ropynf L2hqgrlh \$ecret12 saksham12%	101 102 101 102 101 101 102

2) ADDING AUTO- GENERATED PASSWORD:

• Before adding a password

Domain_name	Username	Password	UserId
Google Google Facebook Snapchat Snapchat Instagram Instagram Facebook	vaibhavgupta2002@gmail.com mehta\$aksh@gmail.com Vaibhavvv.Gupta02 Smehta07 Vaibhav02gupt@ Vaibh@vGuptaaa02 mehta@saksham Sakshammeht@	P0pysxua L7jkgxgg 20atpug% K5drmcfl H3ropynf L2hqgrlh \$ecret12 saksham12%	101 102 101 102 101 101 102

• Input

```
MENU:
Press 1: To create an account
Press 2: LOGIN
Press 3: To exit
Enter the desired option2
Welcome Back
Enter your unique userid101
Enter the passwordCr7ruler
     MENU:
To add a password press 1
To change the password press 2
To delete a password press 3
To show the password press 4
To exit to Main Menu press 5
Please enter your choice:1
please enter the name of domainYahoo
please enter the usernamevaibguptaaa@yahoo.com
please enter the unique userid101
press 1:user added password, 2:auto generated password
please enter your choice2
your new password is COpttlew
the password is successfully added
```

• After adding the password

mysql> select*f	rom passtable;	-	
Domain_name	Username	Password	UserId
Google Google Facebook Snapchat Snapchat Instagram Facebook Yahoo	vaibhavgupta2002@gmail.com mehta\$aksh@gmail.com Vaibhavvv.Gupta02 Smehta07 Vaibhav02gupt@ Vaibh@vGuptaaa02 mehta@saksham Sakshammeht@ vaibguptaaa@yahoo.com	P0pysxua L7jkgxgg 20atpug% K5drmcf1 H3ropynf L2hqgrlh \$ecret12 saksham12% C0pttlew	101 102 101 102 101 101 102 102 101

3) CHANGING PASSWORD MANUALLY:

• Before changing the password

Domain_name	Username	Password	UserId
Google Google Facebook Snapchat Snapchat Instagram Instagram Facebook Yahoo	vaibhavgupta2002@gmail.com mehta\$aksh@gmail.com Vaibhavvv.Gupta02 Smehta07 Vaibhav02gupt@ Vaibh@vGuptaaa02 mehta@saksham Sakshammeht@ vaibguptaaa@yahoo.com	P0pysxua L7jkgxgg 20atpug% K5drmcfl H3ropynf L2hqgrlh \$ecret12 saksham12% C0pttlew	101 102 101 102 101 101 102 102

Input

```
WELCOME
     MENU:
Press 1: To create an account
Press 2: LOGIN
Press 3: To exit
Enter the desired option2
Welcome Back
Enter your unique userid101
Enter the passwordCr7ruler
     MENU:
To add a password press 1
To change the password press 2
To delete a password press 3
To show the password press 4
To exit to Main Menu press 5
Please enter your choice:2
Please enter your username: Vaibhavvv.Gupta02
Press 1:User added password, 2:Auto-generated password
Please enter your choice:1
Enter the password: $ilverag200
Strong Password
Please re-enter the password:$ilverag200
The Password is successfully changed
```

After changing the password

Domain_name Username Password UserId Google vaibhavgupta2002@gmail.com P0pysxua 101 Google mehta\$aksh@gmail.com L7jkgxgg 102 Facebook Vaibhavvv.Gupta02 \$ilverag200 101 Snapchat Smehta07 K5drmcfl 102 Snapchat Vaibhav02gupt@ H3ropynf 101 Instagram Vaibh@vGuptaaa02 L2hqgrlh 101 Instagram mehta@saksham \$ecret12 102 Facebook Sakshammeht@ . saksham12% 102	mysql> select*+	rom passtable;		
Google mehta\$aksh@gmail.com L7jkgxgg 102 Facebook Vaibhavvv.Gupta02 \$ilverag200 101 Snapchat Smehta07 K5drmcfl 102 Snapchat Vaibhav02gupt@ H3ropynf 101 Instagram Vaibh@vGuptaaa02 L2hqgrlh 101 Instagram mehta@saksham \$ecret12 102	Domain_name	Username	Password	UserId
Yahoo vaibguptaaa@yahoo.com C0pttlew 101	Google Facebook Snapchat Snapchat Instagram Instagram Facebook	mehta\$aksh@gmail.com Vaibhavvv.Gupta02 Smehta07 Vaibhav02gupt@ Vaibh@vGuptaaa02 mehta@saksham Sakshammeht@	L7jkgxgg \$ilverag200 K5drmcfl H3ropynf L2hqgrlh \$ecret12 saksham12%	102 101 102 101 101 102 102

4) CHANGING AUTO-GENERATED PASSWORD:

• Before changing the password

Domain_name Username Password UserId	mysql> select*	from passtable;		.
Google mehta\$aksh@gmail.com L7jkgxgg 102 Facebook Vaibhavvv.Gupta02 \$ilverag200 101 Snapchat Smehta07 K5drmcfl 102 Snapchat Vaibhav02gupt@ H3ropynf 101 Instagram Vaibh@vGuptaaa02 L2hqgrlh 101 Instagram mehta@saksham \$ecret12 102	Domain_name	Username	Password	UserId
Facebook	Google Facebook Snapchat Snapchat Instagram Instagram Facebook	mehta\$aksh@gmail.com Vaibhavvv.Gupta02 Smehta07 Vaibhav02gupt@ Vaibh@vGuptaaa02 mehta@saksham Sakshammeht@	L7jkgxgg \$ilverag200 K5drmcfl H3ropynf L2hqgrlh \$ecret12 saksham12%	102 101 102 101 101 102 102

• Input

```
WELCOME
     MENU:
Press 1: To create an account
Press 2: LOGIN
Press 3: To exit
Enter the desired option2
Welcome Back
Enter your unique userid101
Enter the passwordCr7ruler
      MENU:
To add a password press 1
To change the password press 2
To delete a password press 3
To show the password press 4 To exit to Main Menu press 5
Please enter your choice:2
Please enter your username: vaibhavqupta2002@gmail.com
Press 1:User added password, 2:Auto-generated password
Please enter your choice:2
your new password is P6ajrivl
Re-enter the password: P6ajrivl
The password is successfully changed
```

• After changing the password

mysql> select*	from passtable;	-	
Domain_name	Username	Password	UserId
Google Google Facebook Snapchat Snapchat Instagram Instagram	vaibhavgupta2002@gmail.com mehta\$aksh@gmail.com Vaibhavvv.Gupta02 Smehta07 Vaibhav02gupt@ Vaibh@vGuptaaa02 mehta@saksham	P6ajrivl L7jkgxgg \$ilverag200 K5drmcfl H3ropynf L2hqgrlh \$ecret12	101 102 101 102 101 101
Facebook Yahoo +	Sakshammeht@ vaibguptaaa@yahoo.com +	saksham12% C0pttlew	102 101

5) DELETING A PASSWORD:

• Before deleting the password

	rom passtable;		
Domain_name	Username	Password	UserId
Google Facebook Snapchat Snapchat Instagram Instagram	vaibhavgupta2002@gmail.com mehta\$aksh@gmail.com Vaibhavvv.Gupta02 Smehta07 Vaibhav02gupt@ Vaibh@vGuptaaa02 mehta@saksham Sakshammeht@ vaibguptaaa@yahoo.com	P6ajrivl L7jkgxgg \$ilverag200 K5drmcfl H3ropynf L2hqgrlh \$ecret12 saksham12% C0pttlew	101 102 101 102 101 101 102 102

• Input

```
WELCOME
    MENU:
Press 1: To create an account
Press 2: LOGIN
Press 3: To exit
Enter the desired option2
Welcome Back
Enter your unique userid101
Enter the passwordCr7ruler
     MENU:
To add a password press 1
To change the password press 2
To delete a password press 3
To show the password press 4
To exit to Main Menu press 5
Please enter your choice:3
please enter the name of domainInstagram
please enter unique userid101
your password is successfully deleted
```

After deleting the password

mysql> select*f	rom passtable;		
Domain_name	Username	Password	UserId
Google Google Facebook Snapchat Snapchat Instagram Facebook Yahoo	vaibhavgupta2002@gmail.com mehta\$aksh@gmail.com Vaibhavvv.Gupta02 Smehta07 Vaibhav02gupt@ mehta@saksham Sakshammeht@ vaibguptaaa@yahoo.com	P6ajrivl L7jkgxgg \$ilverag200 K5drmcfl H3ropynf \$ecret12 saksham12% C0pttlew	101 102 101 102 101 102 102

6) VIEWING A PASSWORD:

• Input

```
WELCOME
     MENU:
Press 1: To create an account
Press 2: LOGIN
Press 3: To exit
Enter the desired option2
Welcome Back
Enter your unique userid102
Enter the passwordIjklmn0
    MENU:
To add a password press 1
To change the password press 2
To delete a password press 3
To show the password press 4
To exit to Main Menu press 5
Please enter your choice:4
please enter the name of domainFacebook
please enter the unique userid102
the password is [('Facebook', 'Sakshammeht@_.', 'saksham12%', 102)]
```