**Customer Login:**

custLogin(email in varchar2, password in varchar2, success out boolean)

*Algorithm:* **custLogin** will check If  email exists and password matches. If not, it will print a message that email id and /or password does not match. Otherwise it will print a message to indicate user has already logged on.

*Input:* 1) Email id

2)Password

*Output:* Message will be displayed that email id and /or password does not match or

user has already logged on.

SHOW ERRORS;

CREATE OR REPLACE PROCEDURE log\_In

-- Receives Email, Password, and a variable to be returned

(email\_input IN VARCHAR,

password\_input IN VARCHAR,

success OUT INTEGER) AS

-- Values we will be comparing against

mail customer.email%TYPE;

pass customer.password%TYPE;

logged\_In\_Status customer.logged\_in%TYPE;

BEGIN

SELECT email, password, logged\_In

INTO mail, pass, logged\_In\_Status

FROM customer

WHERE email\_input = customer.email

AND password\_input = customer.password;

-- If the email was incorrect

IF mail IS NULL THEN

DBMS\_OUTPUT.PUT\_LINE('Incorrect Username.');

Success := 0;

-- If the password was incorrect

ELSIF password IS NULL THEN

DBMS\_OUTPUT.PUT\_LINE('Incorrect Password.');

Success := 0;

-- If user is not logged in

ELSIF logged\_In\_Status IS NOT NULL THEN

-- Update table so that logged in status is set to 1

UPDATE customer SET logged\_in = 1 WHERE email = mail;

DBMS\_OUTPUT.PUT\_LINE('Username And Password Confirmed.');

DBMS\_OUTPUT.PUT\_LINE('You are now logged in.');

Success := 1;

-- If the User is Logged in/ anything else

ELSE

DBMS\_OUTPUT.PUT\_LINE('Error: You are already logged In.');

Success := 0;

END IF;

-- Any error should return 0;

EXCEPTION

WHEN no\_data\_found THEN

DBMS\_OUTPUT.PUT\_LINE('No Data Found.');

Success := 0;

WHEN OTHERS THEN

DBMS\_OUTPUT.PUT\_LINE('An Error Has Occurred.');

Success := 0;

END;

~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~-- Bad Password

DECLARE  
success INTEGER;  
BEGIN  
 log\_In('a\_hashim@umbc.edu', 'Badpassword', success);

DBMS\_OUTPUT.PUT\_LINE(success);  
END;

~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ -- Bad Email

DECLARE

success  INTEGER;

BEGIN

log\_In('badEmail@gmail.com', 'password1234', success);

DBMS\_OUTPUT.PUT\_LINE(success);

END;

~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ -- Good Email & Password

DECLARE

success  INTEGER;

BEGIN

log\_In('email@gmail.com', 'password1234', success);

DBMS\_OUTPUT.PUT\_LINE(success);

END;