

Assignment -2

Assignment Date	3 October 2022
Student Name	P.Krishandhini
Student Roll Number	311519205034
Maximum Marks	2 Marks

Question-1:

Create User table with email, username, roll number, password.

The screenshot shows the IBM Db2 on Cloud console interface. The 'Tables' tab is selected, and the 'USERS' table is highlighted in the list. The 'Table definition' panel on the right shows the table structure:

Name	Data type	Nullable	Length	Scale
EMAIL	VARCHAR	Y	32	0
NAME	VARCHAR	Y	32	0
PASSWORD	VARCHAR	Y	32	0

The console also shows a search bar for schemas or tables, a 'New table' button, and a 'View data' button.

- insert into USERS values('ganesh@gmail.com','Ganesh',1000);
- insert into USERS values('avinash@gmail.com','Avinash',1001);
- insert into USERS values('udhaya@gmail.com','Udhaya',1002);
- insert into USERS values('dharshan@gmail.com','Priyadharshan',1003);
- insert into USERS values('rohit@gmail.com','Rohit',1004);
- insert into USERS values('abcd@gmail.com','abcd',1005);

The screenshot shows the IBM Db2 on Cloud console interface displaying the data inserted into the 'USERS' table. The table structure is as follows:

EMAIL	NAME	PASSWORD
abcd@gmail.com	abcd	1005
avinash@gmail.com	Avinash	1001
dharshan@gmail.com	Priyadharshan	1003
ganesh@gmail.com	Ganesh	1000
rohit@gmail.com	Rohit	1004
udhaya@gmail.com	Udhaya	1002

The console also shows a 'Back' button and an 'Export to CSV' button.

Question-2:

Perform UPDATE, DELETE Queries with user table

1.

UPDATE USERS

SET EMAIL = 'admin@gmail.com'

WHERE NAME = 'abcd';

The screenshot shows the IBM Db2 on Cloud console interface. The top navigation bar includes 'Load Data', 'Load History', 'Tables', 'Views', 'Indexes', 'Aliases', 'MQTs', 'Sequences', and 'Application objects'. The 'Tables' tab is selected, displaying a table named 'VST02824.USERS'. The table has three columns: 'EMAIL', 'NAME', and 'PASSWORD'. The data rows are as follows:

EMAIL	NAME	PASSWORD
admin@gmail.com	abcd	1005
avinash@gmail.com	Avinash	1001
dharshan@gmail.com	Priyadharshan	1003
ganesh@gmail.com	Ganesh	1000
rohit@gmail.com	Rohit	1004
udhaya@gmail.com	Udhaya	1002

Below the table, there is a search bar with the text 'Udhaya' entered. The bottom of the screen shows a Windows taskbar with the date '20-10-2022' and time '18:51'.

2. delete from USERS where NAME='abcd';

The screenshot displays the IBM Db2 on Cloud web interface. The top navigation bar shows 'Service Details - IBM Cloud' and 'IBM Db2 on Cloud'. The main interface is divided into two sections: 'Data objects' and 'My script'.

In the 'Data objects' section, a search filter 'VST02824' is applied. The 'My script' section shows a SQL script in a text editor:

```
1 delete from USERS where NAME='abcd';
```

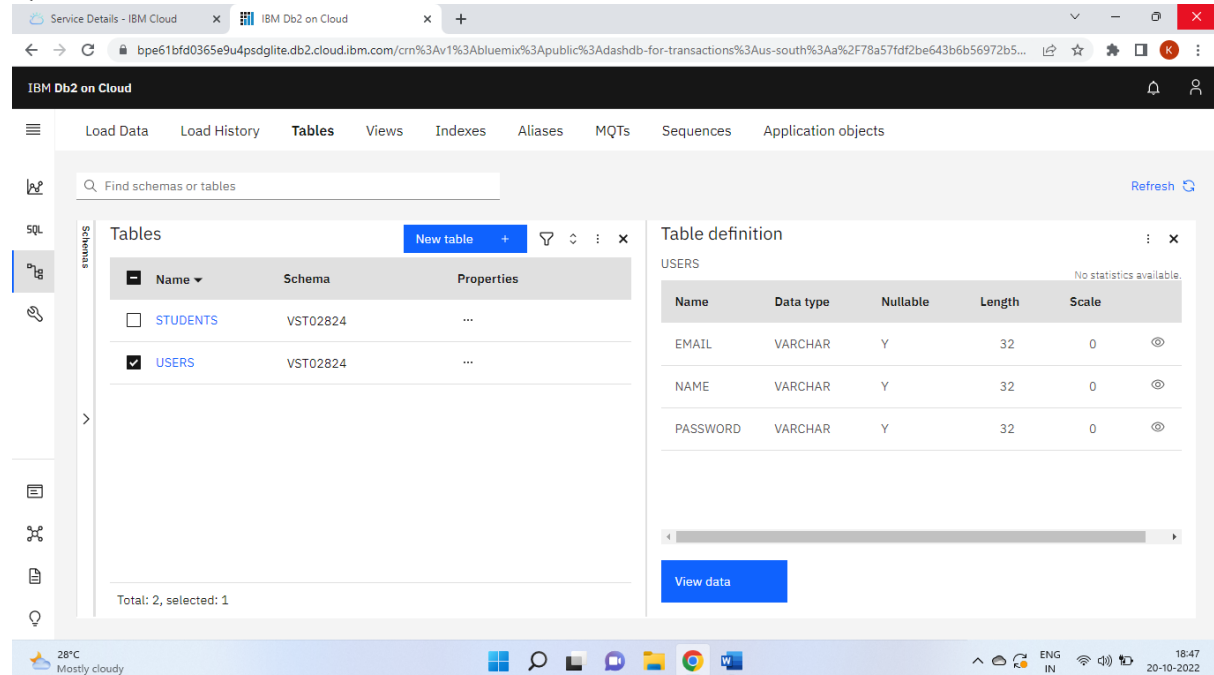
The 'History' tab shows a list of executed scripts with their status and runtime:

Script	Date	Status	Runtime
Untitled - 1	Oct 20, 2022 6:51:29 PM	✓ 1	0.009 s
delete from USERS where NAME='abcd'		✓	0.009 s
Untitled - 1	Oct 20, 2022 6:50:28 PM	✓ 1	0.010 s
UPDATE USERS SET EMAIL = 'admin@gmail.com' WHERE NAME = 'abcd'		✓	0.010 s
Untitled - 1	Oct 20, 2022 6:49:35 PM	✓ 1	0.017 s

The bottom section shows the 'VST02824.USERS' table data. The table has three columns: EMAIL, NAME, and PASSWORD. The data is as follows:

EMAIL	NAME	PASSWORD
avinash@gmail.com	Avinash	1001
dharshan@gmail.com	Priyadarshan	1003
ganesh@gmail.com	Ganesh	1000
rohit@gmail.com	Rohit	1004
udhaya@gmail.com	Udhaya	1002

Question 3:



The screenshot shows the IBM Db2 on Cloud console interface. The 'Tables' tab is active, displaying a list of tables. The 'USERS' table is selected, and its definition is shown on the right. The table has columns: EMAIL (VARCHAR, 32, nullable), NAME (VARCHAR, 32, nullable), and PASSWORD (VARCHAR, 32, nullable). A 'View data' button is visible at the bottom of the table definition panel.

Connect python code to db2

Program:

```
from flask import Flask
import ibm_db

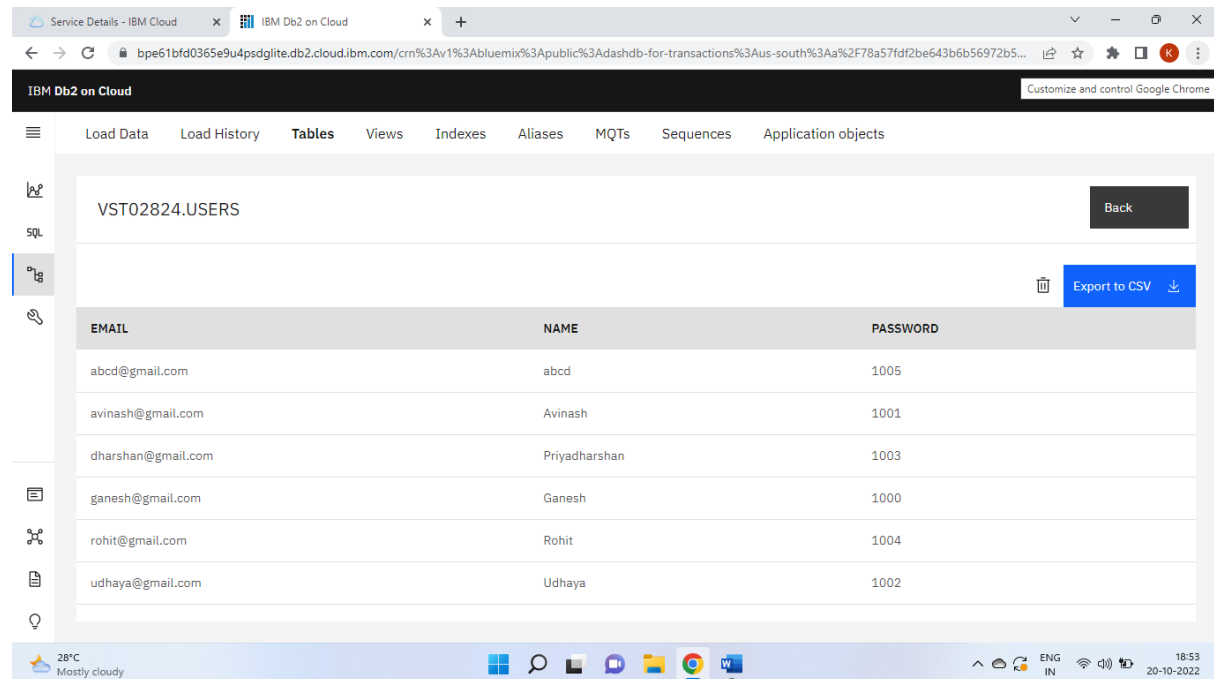
app=Flask(__name__)
try:
    conn=ibm_db.connect("DATABASE=bludb;HOSTNAME=6667d8e9-9d4d-4ccb-ba32-
21da3bb5aafc.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=30376;SECURITY=SSL;SSLSe
rverCertificate=DigiCertGlobalRootCA.crt;UID=prj41491;PWD=8NNe2bnsXzveXAcg","","")
except:
    print("Unable to connect: ",ibm_db.conn_error())

@app.route("/")
def dashboard():
    return "welcome"
if __name__=='__main__':
    app.run(debug=True)
```

Question 4:

Create a flask app with registration page, login page and welcome page. By default load the registration page once the user enters all the fields store the data in database and navigate to login page authenticate username and password. If the user is valid show the welcome page.

Database:



The screenshot shows the IBM Db2 on Cloud web interface. The table 'VST02824.USERS' is displayed with the following data:

EMAIL	NAME	PASSWORD
abcd@gmail.com	abcd	1005
avinash@gmail.com	Avinash	1001
dharshan@gmail.com	Priyadharshan	1003
ganesh@gmail.com	Ganesh	1000
rohit@gmail.com	Rohit	1004
udhaya@gmail.com	Udhaya	1002

Program:

User.py

```
from flask import Flask, render_template, request, redirect, url_for, session, flash
```

```
import ibm_db
```

```
app=Flask(__name__)
```

```
app.secret_key='a'
```

```
try:
```

```
    conn=ibm_db.connect("DATABASE=bludb;HOSTNAME=6667d8e9-9d4d-4ccb-ba32-21da3bb5aafc.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=30376;SECURITY=SSL;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=prj41491;PWD=8NNe2bnsXzveXAcg", "", "")
```

```
except:
```

```
    print("Unable to connect: ", ibm_db.conn_error())
```

```
@app.route("/")
```

```
def dash():
```

```
    return render_template('register.html', msg=" ")
```

```
@app.route("/register", methods=['GET', 'POST'])
```

```
def register():
```

```
    error = None
```

```

if request.method=='POST':
    username=request.form['username']
    email=request.form['email']
    roll_number=request.form['rollnumber']
    password=request.form['password']
    sql="SELECT * FROM user WHERE roll_number=?"
    prep_stmt=ibm_db.prepare(conn,sql)
    ibm_db.bind_param(prepare_stmt,1,roll_number)
    ibm_db.execute(prepare_stmt)
    account=ibm_db.fetch_assoc(prepare_stmt)
    print(account)
    if account:
        error="Account already exists! Log in to continue !"
    else:
        insert_sql="INSERT INTO user values(?,?,?,?)"
        prep_stmt=ibm_db.prepare(conn,insert_sql)
        ibm_db.bind_param(prepare_stmt,1,email)
        ibm_db.bind_param(prepare_stmt,2,username)
        ibm_db.bind_param(prepare_stmt,3,roll_number)
        ibm_db.bind_param(prepare_stmt,4,password)
        ibm_db.execute(prepare_stmt)
        flash(" Registration successfull. Log in to continue !")
else:
    pass
return render_template('login.html',error=error)

```

```

@app.route('/login',methods=['GET','POST'])
def login():
    error = None
    if request.method=='POST':
        username=request.form['username']
        password=request.form['password']
        sql="SELECT * FROM user WHERE username=? AND password=?"
        stmt=ibm_db.prepare(conn,sql)
        ibm_db.bind_param(stmt,1,username)
        ibm_db.bind_param(stmt,2,password)
        ibm_db.execute(stmt)
        account=ibm_db.fetch_assoc(stmt)
        print(account)
        if account:
            session['Loggedin']=True
            session['id']=account['USERNAME']
            session["username"]=account["USERNAME"]
            flash("Logged in successfully!")
            return redirect(url_for("welcome_page"))
        else:

```

```

        error="Incorrect username / password"
        return render_template('login.html',error=error)

@app.route('/welcome')
def welcome_page():
    return render_template("welcome.html",user=session['id'])

if __name__=='__main__':
    app.run(debug=True)

```

register.html

```

<html>
<head>
    <title>Registration page</title>
    <link rel="stylesheet" href="{{url_for('static', filename='style.css')}}">
</head>
<body>
    <div class="center"> <br /><br />
    <form action="/register" method="POST">
        <h2>Student Registration Portal</h2> <br /><br />
        <p> Enter Email ID:</p>
        <input type="email" name="email"/>
        <p> Enter Username:</p>
        <input type="text" name= "username" />
        <p> Enter Password:</p>
        <input type="password" name="password"/>
        <p> Enter Roll number:</p>
        <input type="text" name="rollnumber"/>
        </br></br></br>
        <input type="submit" value="submit" />

    </form>
    </div>
</body>
</html>

```

login.html

```

<html>
<head>
    <title>Login page</title>
    <link rel="stylesheet" href="{{url_for('static', filename='style.css')}}">
</head>
<body>

```

```

{% if error %}
    <p><strong style="color:red">Error</strong>: {{error}}</p>
{% endif %}
{% with messages = get_flashed_messages() %}
    {% if messages %}
        {% for message in messages %}
            <p style="color:green">{{ message }}</p>
        {% endfor %}
    {% endif %}
{% endwith %}
<div class="center"> <br /><br />
<form action="/login" method="POST">
<h1>Login</h1> <br /><br />
    <p> Enter Username:</p>
    <input type="text" name= "username" />
    <p> Enter Password:</p>
    <input type="password" name="password"/>
    <br><br><br>
    <input type="submit" value="submit" />
</form>
</div>
</body>
</html>

```

welcome.html

```

<html>
<head>
    <title>Login page</title>
    <link rel="stylesheet" href="{{url_for('static', filename='style.css')}}">
</head>
<body>
{% with messages = get_flashed_messages() %}
    {% if messages %}
        {% for message in messages %}
            <p style="color:green">{{ message }}</p>
        {% endfor %}
    {% endif %}
{% endwith %}

    <br /><br />
    <center>
        <h2 > User {{user}}</h2> <br />
        <br /><br />
        <p><i>As long as you keep yourself focused, you will have a mighty mind that can make
everything possible.</i></h3>

```


</center>

<div style="margin:40px">

<p>Education can open our eyes and expand our minds unlike anything else.

It allows us to continually reshape how we see the world, leading to an improved and more well-rounded life.

We welcome you with a sense of pride and excitement. Education is a state of mind. It's a way of thinking. It's an attitude. On an individual level it's in constant flux, always changing. Education is not, as most falsely believe, a bunch of certificates. Nor is it a set of abbreviations before or after one's name.</p>

<p>Utilize every moment to prepare your mind and body for future endeavors!

Always look for how much progress can be made rather than perfection. Life will be a lot easier.

Do not give up no matter what, always try just one more time, and eventually you will be successful.

Victories teach you to be humble, but mistakes make you more skillful. So just do your best!

Your hard work will never go in vain! Be diligent towards your dreams and you will reach there soon enough!

Nothing can stop you from reaching your goals as long as you work hard. Your goals are simply dedication and determination away.</p>

<p>In today's world everyone wants to be successful but what is a success. The perspective of success varies from person to person. For the record, the people before us have a different view on success and the person after us will have a different view on success.

Moreover, people compare different people performance to evaluate their success. But success is not something that you can copy from others. You have to make your own path to achieving success. In modern-day, people are obsessed with success because of the glamour and lifestyle of successful people.</p>

<h3>What formulates a person successful?</h3>

<p>There are many ways in the world to be successful. But most people think of celebrities, artist, politicians, and businessmen whenever they heard the word success.

Moreover, they think doing what they will make you successful but that not the case. They forget the most basic thing that makes a person successful that is their hard work, dedication, and the desire to achieve their dream. More importantly, they what they like to do not what that others told them to do. Successful people do what they like to do also they do what they feel correct for their business.

If you look in the dictionary for the meaning of the word success then you will find that it means the achievement of one's goal or aim. So, basically, anyone can achieve success by simply achieving their aim or goal.</p>

</div>

</body>

</html>

style.css

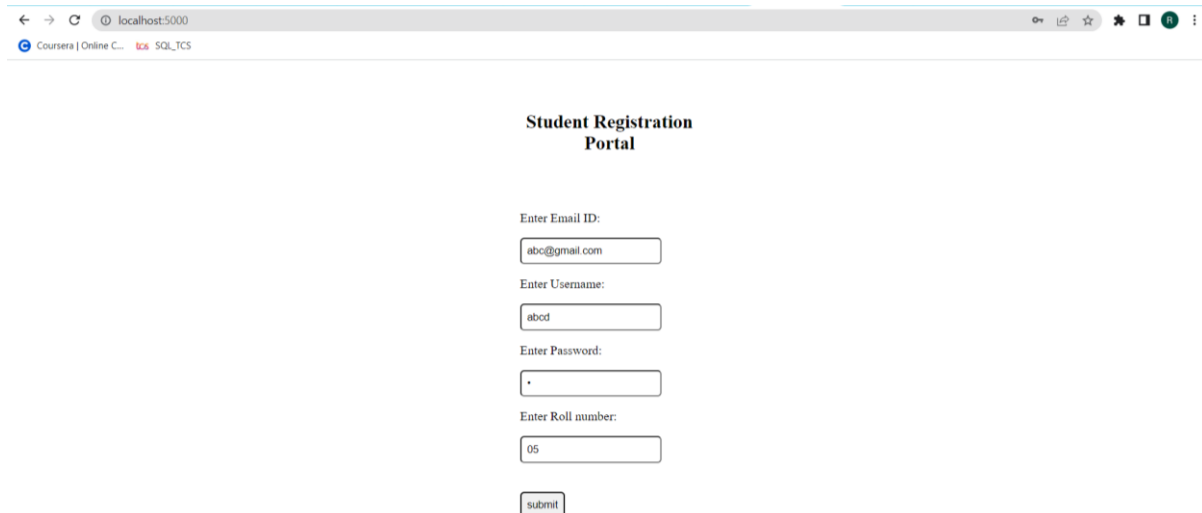
```
.center{
margin: auto;
width: 15%;
}
h2{
```

```

text-align:center;
}
input{
border-radius:5px;
padding:7px;
}

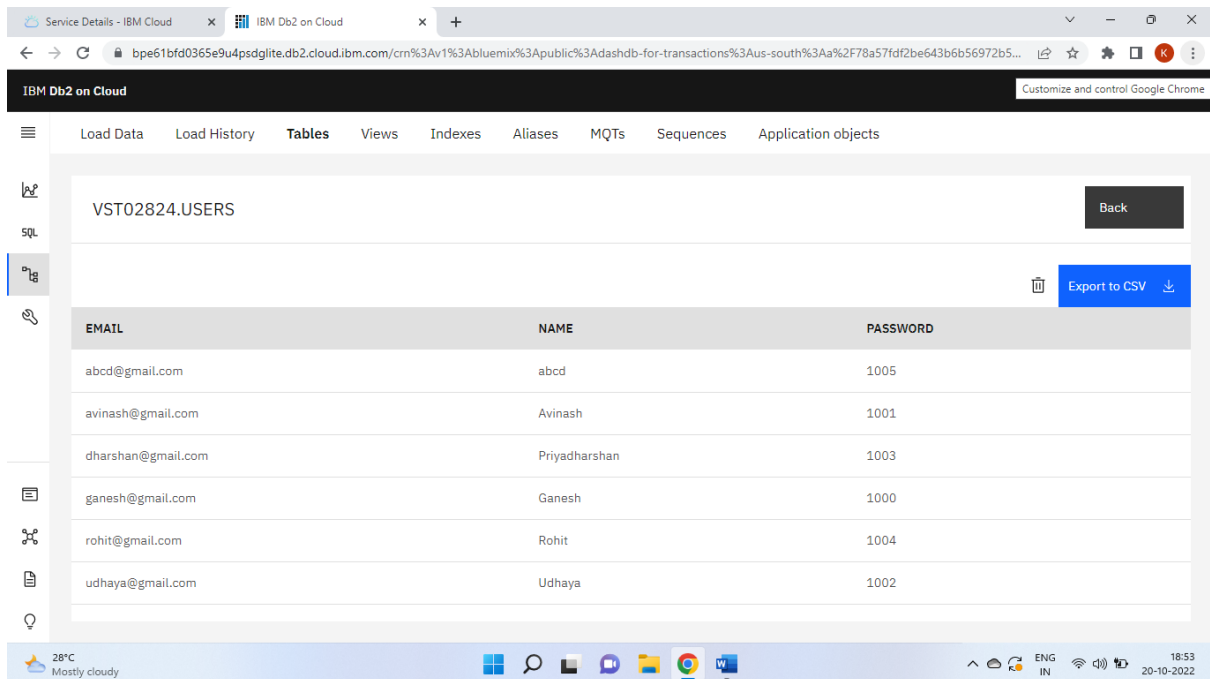
```

Output:



The screenshot shows a web browser window with the address bar displaying 'localhost:5000'. The page title is 'Student Registration Portal'. The form contains the following fields and a submit button:

- Enter Email ID:
- Enter Username:
- Enter Password:
- Enter Roll number:
-



The screenshot shows the IBM Db2 on Cloud console interface. The table 'VST02824.USERS' is displayed with the following data:

EMAIL	NAME	PASSWORD
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avinash@gmail.com	Avinash	1001
dharshan@gmail.com	Priyadharshan	1003
ganesh@gmail.com	Ganesh	1000
rohit@gmail.com	Rohit	1004
udhaya@gmail.com	Udhaya	1002

The console also shows a 'Back' button and an 'Export to CSV' button. The bottom of the screen displays the Windows taskbar with the date and time '18:53 20-10-2022'.

Login

Enter Username:

Enter Password:

Logged in successfully!

User abcd



As long as you keep yourself focused, you will have a mighty mind that can make everything possible.

Education can open our eyes and expand our minds unlike anything else. It allows us to continually reshape how we see the world, leading to an improved and more well-rounded life. We welcome you with a sense of pride and excitement. Education is a state of mind. It's a way of thinking. It's an attitude. On an individual level it's in constant flux, always changing. Education is not, as most falsely believe, a bunch of certificates. Nor is it a set of abbreviations before or after one's name.

Utilize every moment to prepare your mind and body for future endeavors! Always look for how much progress can be made rather than perfection. Life will be a lot easier. Do not give up no matter what, always try just one more time, and eventually you will be successful. Victories teach you to be humble, but mistakes make you more skillful. So just do your best! Your hard work will never go in vain! Be diligent towards your dreams and you will reach there soon enough! Nothing can stop you from reaching your goals as long as you work hard. Your goals are simply dedication and determination away.

In today's world everyone wants to be successful but what is a success. The perspective of success varies from person to person. For the record, the people before us have a different view on success and the person after us will have a different view on success. Moreover, people compare different people performance to evaluate their success. But success is not something that you can copy from others. You have to make your own path to achieving success. In modern-day, people are obsessed with success because of the glamour and lifestyle of successful people.

What formulates a person successful?