

Faculty of Computer Applications & Information Technology

Integrated MSc (IT)

Software Experimentation Project

A Project Report on: -

CPYTHON USING CRUD OPERATIONS

Second Year

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CERTIFICATE

This is to certify that

- 1) **SHAH PRIT** (A-58)
- 2) MANDLI HARSHIL (A-28)
- 3) SUTHAR SAGAR (B-58)

Students of Second Year iMSc(IT), FCAIT have successfully completed the Software Experimentation Project on

"CPYTHON USING CRUD OPERATIONS".

Date of Submission: 20/02/2021

Prof. (Dr.Disha shah) Prof. Tripti Dodiya

(Internal Guide) (i/c Director)

Acknowledgement

I would like to express my special thanks of gratitude to Our project Guide Dr. Disha Shah For Guiding us throughout the course of the project

Also, we would like to thank Prof. Tripti Dodiya for providing our group this opportunity for completing this project

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Project Introduction

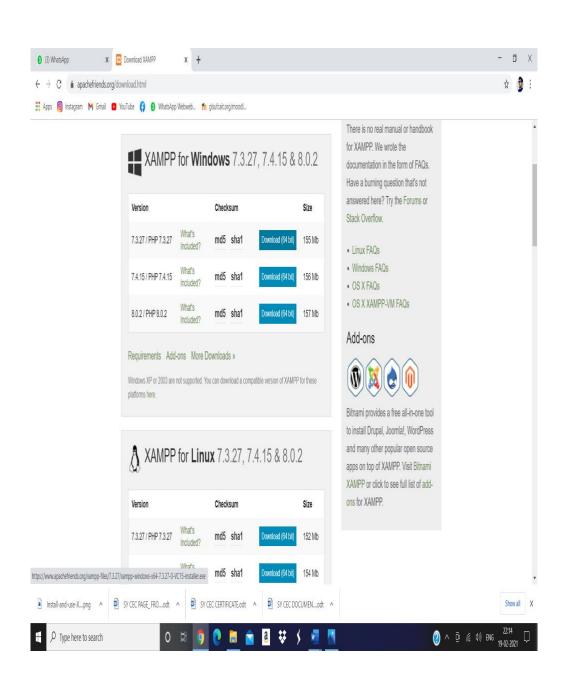
Install CPython and write a program to perform the following operation and display the output. Create the database in SQLite.

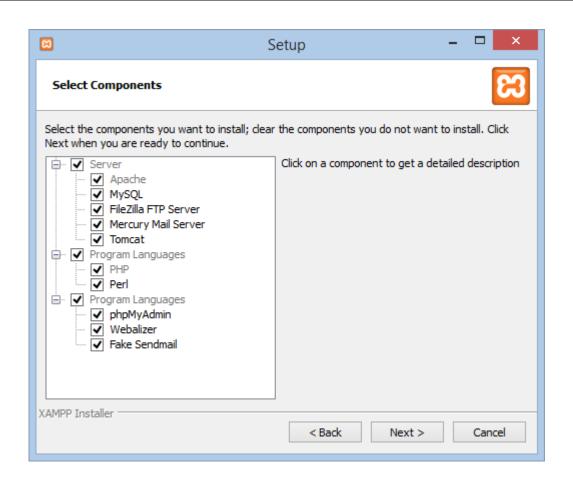
- 1. Create a database named GLS University.
- 2. Create tables named courses and departments.
- 3. Each department can have multiple courses.
- 4. Insert details and display the details.

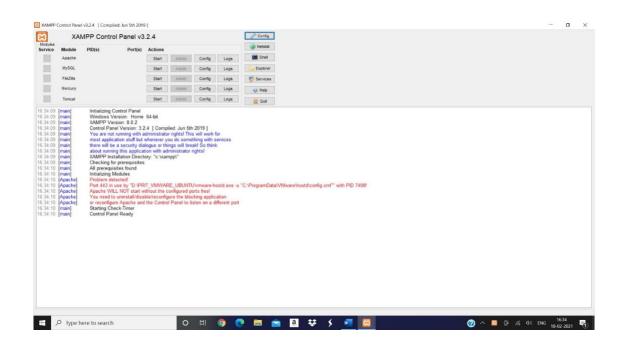
Software Details

- 1. XAMPP
- 2. CPYTHON
- 3. MYSQL

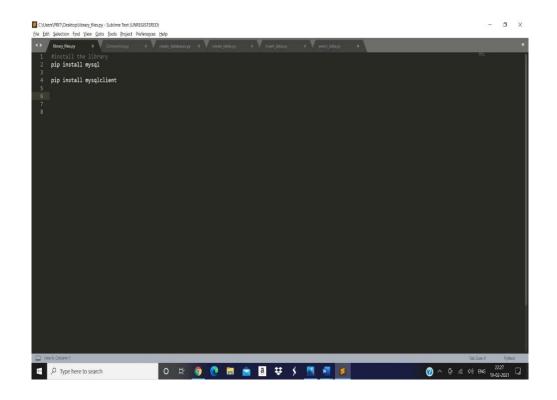
Installation about the software

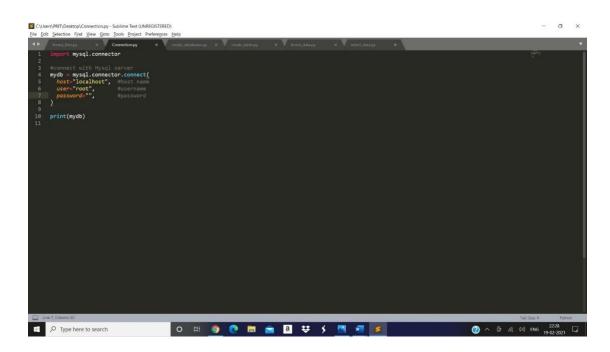


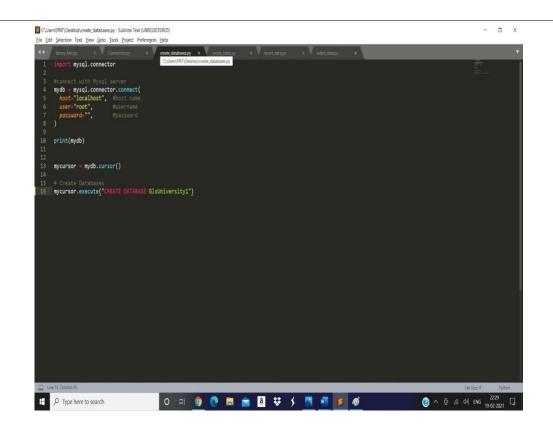


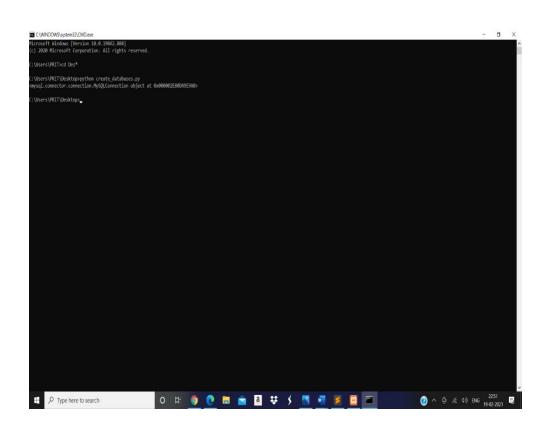


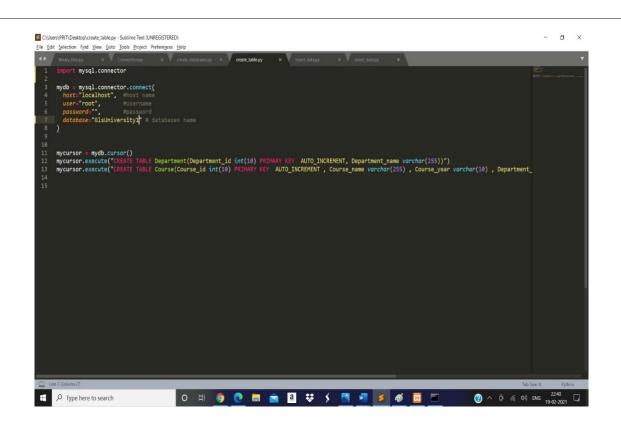
Example Description with Screen layout

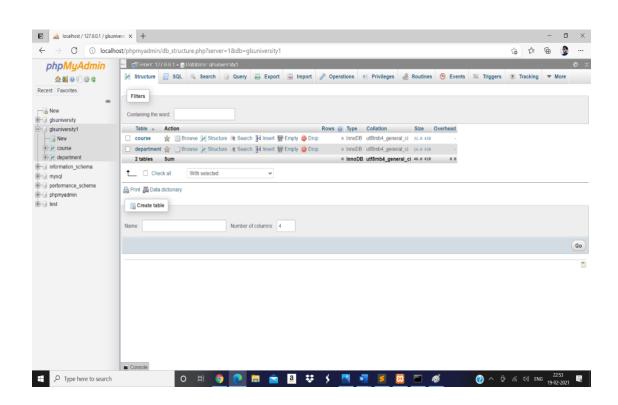


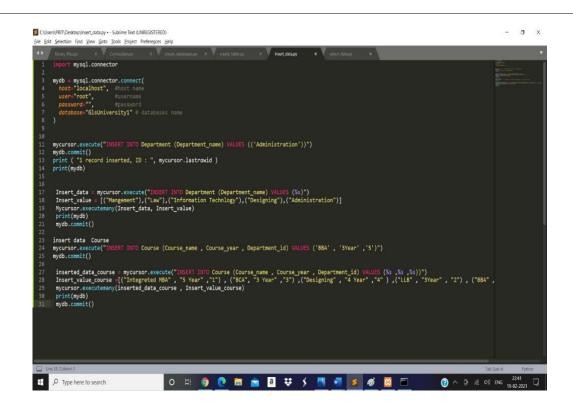


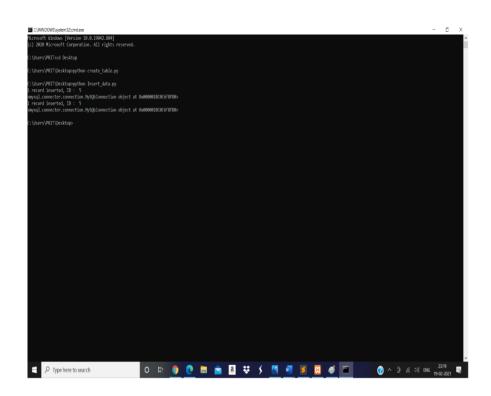


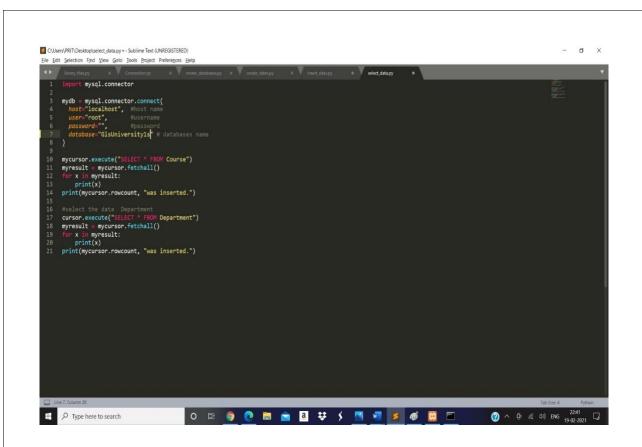


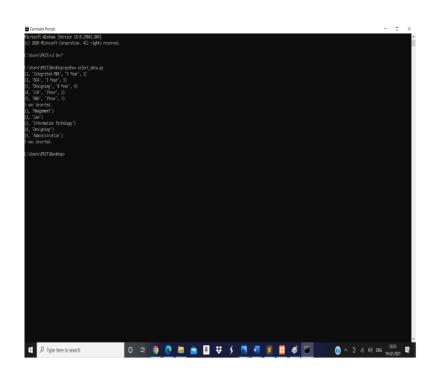












Sample coding

```
install the library
pip install mysql
pip install mysqlclient
install the xamp server for mysql server
import the mysql data and connect
import mysql.connector
connect with Mysql server
mydb = mysql.connector.connect(
host="localhost", #host name
 user="root", #username
password="",
              #password
#connect with mysql server and databases
mydb = mysql.connector.connect(
 host="localhost", #host name
 user="root",
                #username
 password="",
                       #password
 database="GlsUniversity" # databases name
)
store the databases connection
mycursor = mydb.cursor()
Create Databases
mycursor.execute("CREATE DATABASE GlsUniversity")
Create table Department and Course
mycursor.execute("CREATE TABLE Department(Department_id
int(10) PRIMARY KEY AUTO_INCREMENT, Department_name
varchar(255))")
mycursor.execute("CREATE TABLE Course(Course_id
                                                        int(10)
PRIMARY KEY AUTO INCREMENT, Course name
```

```
, Course_year varchar(10)
                                            , Department_id
varchar(255)
int(10),FOREIGN
                        KEY(Department_id)
                                                REFERENCES
Department(Department_id))'')
#insert data Department
mycursor.execute("INSERT INTO Department (Department_name)
VALUES (('Administration'))'')
mydb.commit()
print ("1 record inserted, ID:", mycursor.lastrowid)
print(mydb)
                mycursor.execute("INSERT INTO
                                                  Department
Insert data
            =
(Department_name) VALUES (%s)")
                         [("Mangement"),("Law"),("Information
Insert value
Technlogy"),("Designing"),("Administration")]
Mycursor.executemany(Insert data, Insert value)
print(mydb)
mydb.commit()
insert data Course
mycursor.execute("INSERT INTO Course
                                             (Course name
Course_year, Department_id) VALUES ('BBA', '3Year', '5')'')
mydb.commit()
inserted_data_course = mycursor.execute("INSERT INTO Course
               , Course_year ,
                                    Department id)
(Course name
                                                     VALUES
(\%s,\%s,\%s)'')
Insert_value_course =[("Integreted MBA", "5 Year","1"), ("BCA",
"3 Year", "3"), ("Designing", "4 Year", "4"), ("LLB", "3Year",
"2"), ("BBA", "3Year", "5")]
mycursor.executemany(inserted data course, Insert value course)
print(mydb)
mydb.commit()
```

```
select the data course and display data using line by line
mycursor.execute("SELECT * FROM Course")
myresult = mycursor.fetchall()
for x in myresult:
    print(x)
print(mycursor.rowcount, "was inserted.")
#select the data Department
cursor.execute("SELECT * FROM Department")
myresult = mycursor.fetchall()
for x in myresult:
    print(x
print(mycursor.rowcount, "was inserted.").
```

Conclusion

The project "Cpython using crud operations" has been developed as per requirement specification. It has been developed by using XAMPP software and Cpython also with MySQL lite. Using xampp software we connected MySQL with Cpython and wrote all quarries.

After that we used CMD for getting our output results.

References

- https://www.sqlitetutorial.net/sqlitepython/creating-database/
- https://www.guru99.com/pythonmysql-example.html
- https://www.w3schools.com/

