COMPUTER PROGRAMMING 1

Lecture

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GOOD AFTERNOON ! WELCOME TO OUR CLASS

PRAYER

Checking Of Attendance
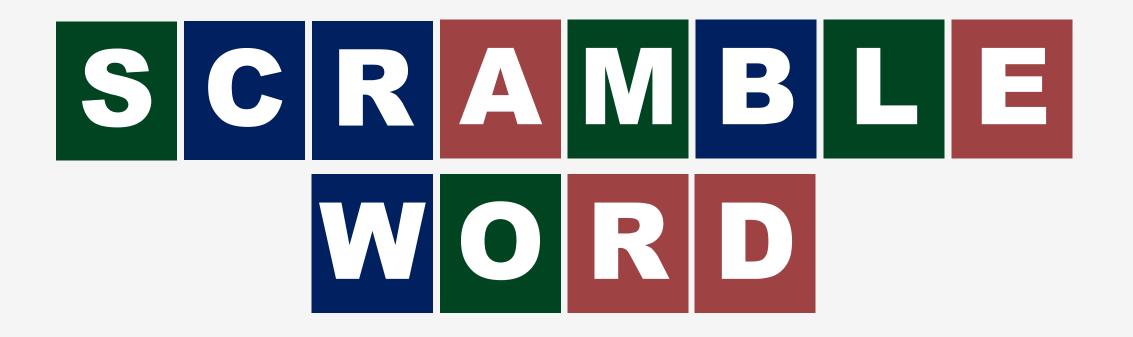
Let us have a review!

SCRAMBLE
WORD

COMPUTER PROGRAMMING 1

SCRAMBLE WORD

Given the scrambled letters, the students must unscramble the letter and form a real word.

ARGESOT

STORAGE

3

ONITCONNCE

CONNECTION

PROGRAM

DATA

STORAGE

CONNECTION

PROGRAM

SQLITE

How to install SQLite?

1 Open the download page :

https://www.sqlite.org/download.html

Precompiled Binaries for Windows

sqlite-dll-win32-x86-3290000.zip (474.63 KiB)
: 32-bit DLL (x86) for SQLite version 3.29.0. (sha1: 00435a36f5e6059287cde2cebb2882669cdba3a5)

sqlite-dll-win64-x64-3290000.zip (788.61 KiB)
: 64-bit DLL (x64) for SQLite version 3.29.0. (sha1: c88204328d6ee3ff49ca0d58cbbee05243172c3a)

sqlite-tools-win32-x86-3290000.zip (1.71 MiB)
: A bundle of command-line tools for managing SQLite database files, including the command-line shell program, the sqldiff.exe program, and the sqlite3_analyzer.exe program. (sha1: f009ff42b8c22886675005e3e57c94d62bca12b3)

How to install SQLite?

2 Create a new folder e.g., C:\sqlite

3 Extract the content of the file that you downloaded to the C:\sqlite folder.

How to install SQLite?

4 Open the command line window

and navigate to the **C:\sqlite** folder:

```
C:\cd c:\sqlite
C:\sqlite>
```

How to install SQLite?

5 Then type the **sqlite3** and press enter,

you should see the following:

```
C:\sqlite>sqlite3
SQLite version 3.29.0 2019-07-10 17:32:03
Enter ".help" for usage hints.
Connected to a transient in-memory database.
Use ".open FILENAME" to reopen on a persistent database.
sqlite>
```

How to install SQLite?

6 Install SQLite GUI Tool: DB Browser for SQLite:

[Downloads - DB Browser for SQLite (sqlitebrowser.org)](sqlitebrowser.org)

Connecting the database SQLite in Python File / Program

```python
import sqlite3

def exe(para,data):
    conn = sqlite3.connect('StudentData.db')
    if data == None:
        cursor = conn.execute(para)
    else:
        cursor = conn.execute(para,data)
    rows = cursor.fetchall()
    conn.commit()
    cursor.close()
    return rows
```

ACTIVITY

ACTIVITY

Direction: Given the table from a database and a query, write what will be the result once we execute the query.

id	name	year
Filter	Filter	Filter
STDNT-12345	Bruno Mars	4th Year
STDNT-4567	Avril Lavigne	2nd Year
STDNT-1010	Taylor Swift	3rd Year
STDNT-7362	Anson Seabra	1st Year

KEY TO CORRECTION

1

	id	name	year
	Filter	Filter	Filter
1	STDNT-12345	Bruno Mars	4th Year
2	STDNT-4567	Avril Lavigne	2nd Year
3	STDNT-1010	Taylor Swift	3rd Year
4	STDNT-7362	Anson Seabra	1st Year
5	STDNT-2121	Ariana Grande	4th Year

KEY TO CORRECTION

②

	id	name	year
	Filter	Filter	Filter
1	STDNT-12345	Bruno Mars	4th Year
2	STDNT-4567	Avril Lavigne	2nd Year
3	STDNT-7362	Anson Seabra	1st Year

KEY TO CORRECTION

③

	id	name	year ▲¹
	Filter	Filter	Filter
1	STDNT-12345	Celine Dion	3rd Year
2	STDNT-1010	Taylor Swift	3rd Year
3	STDNT-4567	Avril Lavigne	2nd Year
4	STDNT-7362	Anson Seabra	1st Year

KEY TO CORRECTION

4

id	name	year
STDNT-12345	Bruno Mars	4th Year

✔ KEY TO CORRECTION

1. TRUE

2. TRUE

3. FALSE

4. FALSE

5. TRUE

6. TRUE

7. FALSE

8. FALSE

9. FALSE

10. TRUE

ASSIGNMENT

❑ Create a python program with the integration to GUI and database. The program should have one (1) lineEdit, one (1) combo box, one (1) tableWidgets, 3 (three) buttons for ok/submits/insert/save, delete/erase, and update. The data to be entered is depends on the student. Any data is accepted as well as it do not have a foul words.

❑ Create a video of you while you are using your created program and explaining its code. You are required to show your face in the screen while you are presenting.

ASSIGNMENT

Deadline and Submission:

- Submission is on next meeting, Thursday, _December 14, 2023_, _until 11:59 am only_.

- Submit your file in _.zip format_ and name it _SURNAME_DATABASE_.

- Included in the zip file are the _.py, .ui, .db and .mp4_.

ADVANCE ASSIGNMENT

Direction: Search, read and try other commands of SQLite such as:

❖ CREATE

❖ ALTER

❖ DROP

REFERENCES

➢ https://www.oracle.com/ph/database/what-is-database/

➢ https://www.tutorialspoint.com/sqlite/sqlite_overview.htm

➢ https://www.sqlitetutorial.net/?fbclid=IwAR3oURJ4Ru8HXFAZ3i
fSXuzfbK-h_ZDBetsuyfuAepuZvQ6BFKGvUMT_pzI

Thank You for Listening