DIPLOMA IN LIBRARY INFORMATICS

UNIVERSITI TEKNOLOGI MARA (UITM) KEDAH, CAMPUS SUNGAI PETANI

FACULTY OF INFORMATION SCIENCE STUDIES COLLEGE OF COMPUTING, INFORMATICS AND MATHEMATICS

IML208 PROGRAMMING FOR LIBRARIES

INDIVIDUAL ASSIGNMENT

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CLASS: CDIM1443B

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SUBMISSION DATE:

4th JANUARY 2024

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First, I am grateful to The Almighty God for establishing me to complete this individual assignment. In performing my assignment, it is a successful one I had to take the help and guideline.

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1.0 INTRODUCTION

The Piano Class Registration Form is the user-friendly application is intended to make the registration process for piano lessons easier. This programme, which is powered by Python's Tkinter library, provides a graphical interface through which students can easily enter their information. The form asks for information like the student's name, gender, category, phone number, and email address. Students can select their gender and category from a dropdown menu, such as Primary School or Secondary School.

Students must accept the terms and conditions to ensure a smooth registration process. Once the required information has been entered, students can submit their registration by clicking the "Enter" button. If the terms and conditions are accepted, the student's name will be saved in the database. Otherwise, the student's name, gender, category, phone number, and email address will be saved by the programme.

The programme uses the credentials provided in the code to connect to a MySQL database and store the data. The information is then stored in the "student_data" table. Students will see an output label confirming that all students are welcome to join the piano classes after successfully registering.

2.0 FLOWCHART
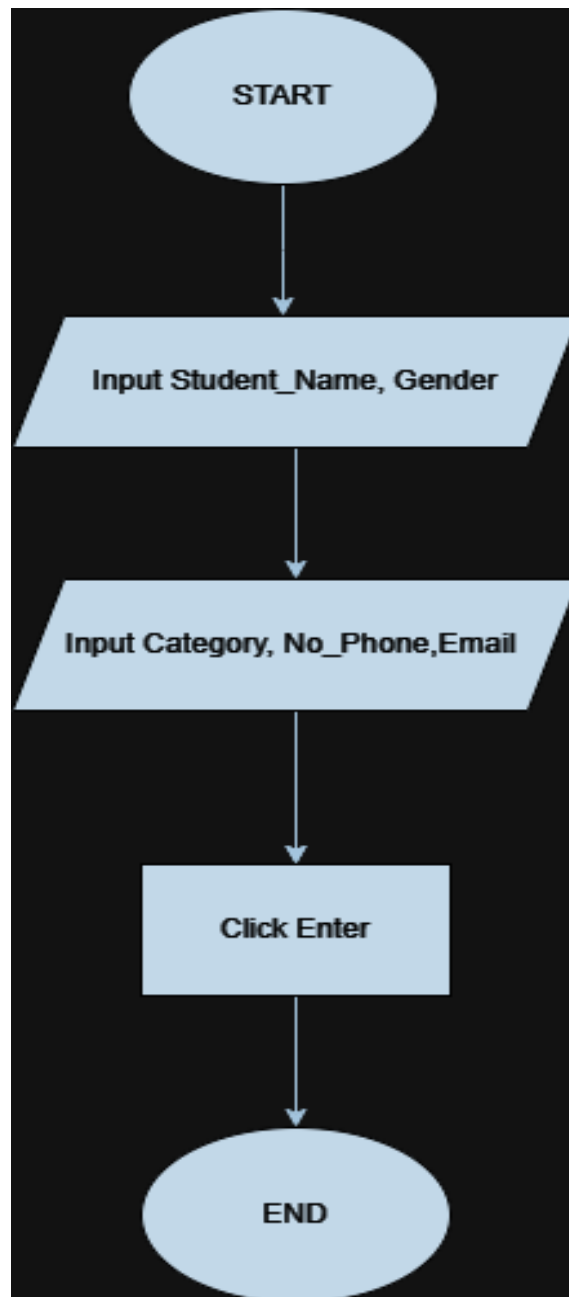
3.0 SNAPSHOT OF CODE

```python
import tkinter as tk
from tkinter import ttk
import mysql.connector

def enter_data():

        # Student info
        student_name = student_name_entry.get()
        gender = gender_type_combobox.get()
        category = category_type_combobox.get()
        no_phone = int(no_phone_entry.get())
        email = email_entry.get()

        # Connect to MySQL
        mydb = mysql.connector.connect(
            host="localhost",
            user="root",
            password="",
            database="piano_class_registration"
        )

        mycursor = mydb.cursor()

        # Inserting data into a table
        sql = "INSERT INTO student_data (Student_Name, Gender, Category, No_Phone, Email) VALUES (%s, %s,
        val = (student_name, gender, category, no_phone, email)
        mycursor.execute(sql, val)
        mydb.commit()
```

```python
# Your Main window, You need to have the title, geometry (MUST)
root = tk.Tk()
root.title("Piano Class Registration Form")
root.geometry('700x500')

# Page title
label = tk.Label(root, text="Piano Class Registration", font=("Roman", 28, "bold"), bg='#FA8072')
label.grid(ipadx=10, ipady=10)

frame = tk.Frame(root)
frame.grid()

# Student Info Frame
student_info_frame = tk.LabelFrame(frame, text="Student Information", bg='#FFA07A')
student_info_frame.grid(row=1, column=0, padx=30, pady=50)

# Student Name
student_name_label = tk.Label(student_info_frame, text="Student Name")
student_name_label.grid(row=0, column=0)
student_name_entry = tk.Entry(student_info_frame)
student_name_entry.grid(row=1, column=0)

# Gender
gender_type_label = tk.Label(student_info_frame, text="Gender")
gender_type_combobox = ttk.Combobox(student_info_frame, values=["", "Male", "Female"])
gender_type_label.grid(row=0, column=1)
gender_type_combobox.grid(row=1, column=1)

# Category
```

```python
59    category_type_label = tk.Label(student_info_frame, text="Category")
60    category_type_combobox = ttk.Combobox(student_info_frame, values=["Primary School", "Secondary School"])
61    category_type_label.grid(row=2, column=0)
62    category_type_combobox.grid(row=3, column=0)
63
64    # No Phone
65    no_phone_label = tk.Label(student_info_frame, text="No Phone")
66    no_phone_label.grid(row=2, column=1)
67    no_phone_entry = tk.Entry(student_info_frame)
68    no_phone_entry.grid(row=3, column=1)
69
70    # Email
71    email_label = tk.Label(student_info_frame, text="Email")
72    email_label.grid(row=3, column=2)
73    email_entry = tk.Entry(student_info_frame)
74    email_entry.grid(row=3, column=3)
75
76    for widget in student_info_frame.winfo_children():
77        widget.grid_configure(padx=10, pady=5)
78
```

```python
79    # Save Button
80    save_button = tk.Button(root, text="Enter", command=enter_data)
81    save_button.grid(pady=10)
82
83    # Output Label & result
84    label = tk.Label(root, text='Thank You For Your Registration!', font=("Times New Romans", 17))
85    label.grid(ipadx=10, ipady=10)
86    output_label = tk.Label(root, text="")
87    output_label.grid()
88
89    root.mainloop()
```

4.0 SNAPSHOT OF GUI

5.0 SNAPSHOT OF DATABASE