UNIVERSITI TEKNOLOGI MARA (UITM)

CAWANGAN KEDAH, KAMPUS SUNGAI PETANI

FACULTY OF INFORMATION SCIENCE STUDIES COLLEGE OF COMPUTING,

INFROMATICS AND MEDIA

DIPLOMA IN LIBRARY INFORMATICS (IM144)

PROGRAMMING FOR LIBRARIES (IML208)

INDIVIDUAL ASSIGNMENT

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CLASS:

CDIM1443B

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INDIVIDUAL ASSINGMENT

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Assalamualikum w.b.t

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Lastly, I really appreciate to my classmate who also help me and spend their time for me. Thank you to everyone who helped. I really appreciate it.
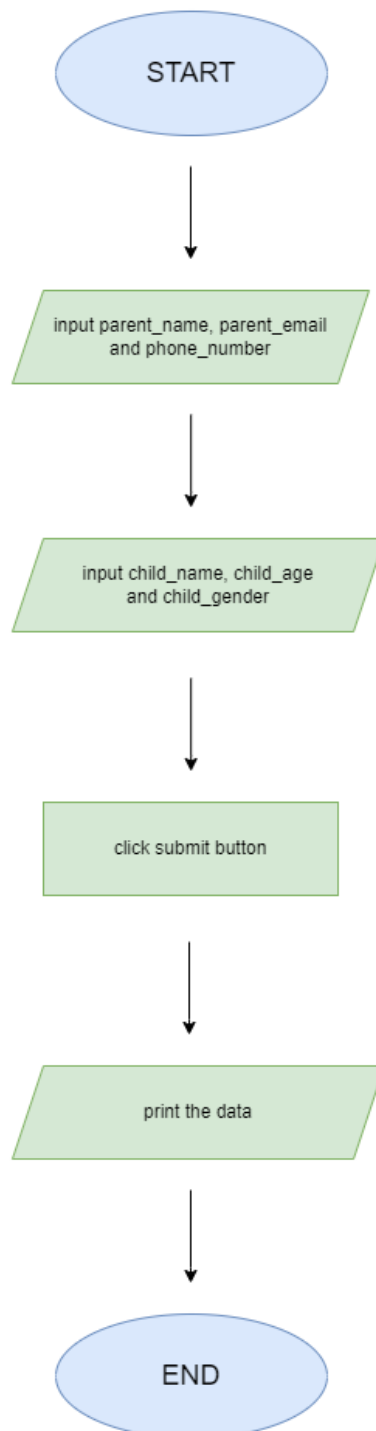
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1.0 Introduction

I am assigned to complete this assignment about code what I have learn, and I must choose a topic to complete this assignment. I chose the title "kindergarten registration" because I have experience in the field. This task taught me to solve problems while also helping me to understand the lessons I was learning. Apart from that I can explore things I don't know and add new knowledge. Furthermore, I can know how the system works, everything is behind the code that has been built. I am very grateful when my code can run and can be accepted in the database.

2.0 Flowchart

```
          ┌───────────────┐
          │     START     │
          └───────────────┘
                  │
                  ▼
    ╱──────────────────────────╲
   ╱  input parent_name,        ╲
  ╱   parent_email and           ╲
  ╲   phone_number               ╱
   ╲──────────────────────────╱
                  │
                  ▼
    ╱──────────────────────────╲
   ╱  input child_name,          ╲
  ╱   child_age and               ╲
  ╲   child_gender                ╱
   ╲──────────────────────────╱
                  │
                  ▼
          ┌───────────────┐
          │ click submit  │
          │    button     │
          └───────────────┘
                  │
                  ▼
    ╱──────────────────────────╲
   ╱       print the data        ╲
   ╲──────────────────────────╱
                  │
                  ▼
          ┌───────────────┐
          │      END      │
          └───────────────┘
```

3.0 Code

```python
# Kindergarten_Registrtion.py > ...
1   import tkinter as tk
2   import mysql.connector
3
4   # Connect to your MySQL database
5   mydb = mysql.connector.connect(
6       host="localhost",
7       user="root",
8       password="",
9       database="kindergarten_registration"
10  )
11
12  # Create a cursor object to execute SQL queries
13  mycursor = mydb.cursor()
14
15  def enter_data():
16      parent_name =parent_name_entry.get()
17      parent_email = email_entry.get()
18      parent_phone_number = phone_number_entry.get()
19      child_name = child_name_entry.get()
20      child_age =child_age_entry.get()
21      child_gender = child_gender_var.get()
22
23    # Inserting data into a table
24      sql = "INSERT INTO user_registration (parent_name, parent_email, parent_phone_number, child_name, child_age,child_gender) VALUES (%s, %s, %s,
25      val = (parent_name, parent_email, parent_phone_number, child_name, child_age, child_gender)
26      mycursor.execute(sql, val)
27      mydb.commit()
28
```

```python
# Kindergarten_Registrtion.py > ...
29
30  # Your Main window, You need to have the title, geometry (MUST)
31  root = tk.Tk()
32  root.title("Kindergarten Registration Form")
33  root.geometry('500x500')
34  root.configure(bg="#FDFD96"
35  )
36
37  # Page Title
38  label = tk.Label(root,text=" Kindergarten Registration", font=("New York",20, "bold"), bg="#79BAEC")
39  label.grid(ipadx=10, pady=10)
40
41
42  # Parent Information
43  info_frame = tk.Frame(root)
44  info_frame.grid()
45
46  # Parent Name
47  parent_name_label=tk.Label(info_frame, text="Parent Name:")
48  parent_name_label.grid(row=0, column=0)
49  parent_name_entry = tk.Entry(info_frame)
50  parent_name_entry.grid(row=0, column=1)
51
52  # Parent Email
53  email_label=tk.Label(info_frame, text="Email:")
54  email_label.grid(row=1, column=0)
55  email_entry = tk.Entry(info_frame)
56  email_entry.grid(row=1, column=1)
57
```

```python
57
58    #Parent Number Phone
59    phone_number_label=tk.Label(info_frame, text="Phone Number:")
60    phone_number_label.grid(row=2, column=0)
61    phone_number_entry = tk.Entry(info_frame)
62    phone_number_entry.grid(row=2, column=1)
63
64    # Child name
65    child_name_label = tk.Label(info_frame, text="Child Name:")
66    child_name_label.grid(row=3, column=0, padx=5, pady=5)
67    child_name_entry = tk.Entry(info_frame, width=30)
68    child_name_entry.grid(row=3, column=1, padx=5, pady=5)
69
70    # Child age
71    child_age_label = tk.Label(info_frame, text="Age:")
72    child_age_label.grid(row=4, column=0, padx=5, pady=5)
73    child_age_entry = tk.Entry(info_frame, width=30)
74    child_age_entry.grid(row=4, column=1, padx=5, pady=5)
75
76
77    # Gender Dropdown
78    child_gender_var = tk.StringVar(root)
79    child_gender_var.set("Select Your Child gender")
80                        # Default value before your selection
81    child_gender_dropdown = tk.OptionMenu(root, child_gender_var, "Male", "Female")
82    child_gender_dropdown.grid(pady=10)
83
84    # Information by using textbox
85    Information_text = tk.Text(root, height=3, width=60)
86    Information_text.grid(pady=20)
87
```

```python
87
88    # The defined list by using textbox
89    Information_text.insert(tk.END, "Registration is open to children aged 4 to 6 years only !\n\n")
90    Information_text.insert(tk.END, "Registration only open from 5 January until 10 Febuary !\n\n")
91    Information_text.configure(state='disabled')
92
93    # Submit Button
94    submit_button = tk.Button(root, text="Submit Form", command=enter_data)
95    submit_button.grid(pady=10)
96
97    label = tk.Label(root, text="Thank You for Your Registration!", font=("New York",14, "bold"), bg= "#79BAEC")
98    label.grid(padx=10, pady=10)
99
100
101   root.mainloop()
```

4

4.0 GUI

5.0 Database

6.0 Conclusion

I've been given to finish the assignments about code that I've learned, and I must select a topic to accomplish it. I picked the term "kindergarten registration" since I am familiar with topics. This assignment taught me how to tackle difficulties while also assisting me in understanding the topics I was learning. Aside from that, I can learn about new subjects and expand my knowledge. Furthermore, I understand how the system works because everything is hidden behind the code that has been written. When my code runs and is approved by the database, I am overjoyed.