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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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INDIVIDUAL ASSINGMENT

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DIPLOMA IN LIBRARY INFORMATICS

COLLAGE OF COMPUTING, INFORMATICS AND MEDIA

UiTM CAMPUS SUNGAI PETANI, KEDAH

## **ACKNOWLEDGEMENT**

Assalamualikum w.b.t

I'm very grateful to our God for allowing me to complete this individual assignment with successfully and I would like to say a million thanks to my beloved lecturer sir Airul Shazwan for teaching and guiding me until I were able to complete this assignment without your help, I would not have been able to do it.

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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.

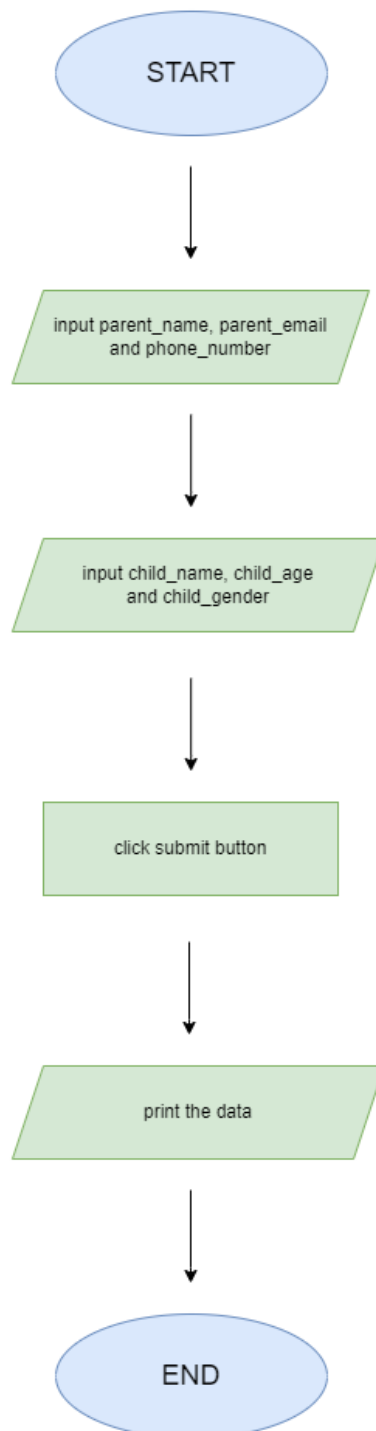
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## **1.0 Introduction**

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



### 3.0 Code

```
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, %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
```

```
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, ipady=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
```

```

Kindergarten_Registrtion.py > ...
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

```

```

Kindergarten_Registrtion.py > ...
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()

```



## 4.0 GUI



The image shows a graphical user interface for a 'Kindergarten Registration Form'. The window has a title bar with a feather icon, the text 'Kindergarten Registration Form', and standard window controls (minimize, maximize, close). The main area has a yellow background. At the top, a blue banner contains the title 'Kindergarten Registration' in bold black text. Below this, a light gray rectangular box contains several input fields: 'Parent Name:', 'Email:', 'Phone Number:', 'Child Name:', and 'Age:'. Each label is followed by a white text input field. Below the gray box is a button labeled 'Select Your Child gender' with a small downward arrow icon. Underneath the button, two lines of text are displayed in a monospaced font: 'Registration is open to children aged 4 to 6 years only !' and 'Registration only open from 5 January until 10 Febuary !'. Below the text is a button labeled 'Submit Form'. At the bottom, another blue banner contains the text 'Thank You for Your Registration!' in bold black text.

Kindergarten Registration Form

### Kindergarten Registration

Parent Name:

Email:

Phone Number:

Child Name:

Age:

Select Your Child gender 

Registration is open to children aged 4 to 6 years only !

Registration only open from 5 January until 10 Febuary !

Submit Form

### Thank You for Your Registration!

## 5.0 Database

Server: 127.0.0.1 » Database: kindergarten\_registration » Table: user\_registration

Browse Structure SQL Search Insert Export Import Privileges Operations Tracking Triggers

Showing rows 0 - 2 (3 total, Query took 0.0004 seconds.)

```
SELECT * FROM `user_registration`
```

☐ Profiling [ Edit inline ] [ Edit ] [ Explain SQL ] [ Create PHP code ] [ Refresh ]

☐ Show all | Number of rows: 25 | Filter rows: Search this table

Extra options

parent_name	parent_email	parent_phone_number	child_name	child_age	child_gender
wasi	washi@gmail.com	1267365181	Zaim	6	Male
Anisa	anisa@gmail.com	186524681	Muhammad Hadi	6	Male
Muhammad Aidil	aidil234@gmail.com	127542781	Hani Naura	5	Female

☐ Show all | Number of rows: 25 | Filter rows: Search this table

Query results operations

Print Copy to clipboard Export Display chart Create view

Bookmark this SQL query

Label:  ☐ Let every user access this bookmark

Console

Server: 127.0.0.1 » Database: kindergarten\_registration

Structure SQL Search Query Export Import Operations Privileges Routines Events Triggers More

Filters

Containing the word:

Table	Action	Rows	Type	Collation	Size	Overhead
<input type="checkbox"/> user_registration	★ Browse Structure Search Insert Empty Drop	3	InnoDB	utf8mb4_general_ci	16.0 KiB	-
1 table	Sum	3	InnoDB	utf8mb4_general_ci	16.0 KiB	0 B

⬆ ☐ Check all With selected:

Print Data dictionary

Create new table

Table name  Number of columns

Console

## **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.