SCHOOL OF SCIENCE, INFORMATIC AND MEDIA,

UNIVERSITY TECHNOLOGY MARA,

MERBOK, KEDAH

DIPLOMA IN INFORMATIC LIBRARY

(CDIM144)

PROGRAMMING FOR LIBRARIES

(IML208)

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ASSIGNMENT I:

REGISTRATION FEE AQUARIUM

CLASS:

KCDIM1443E

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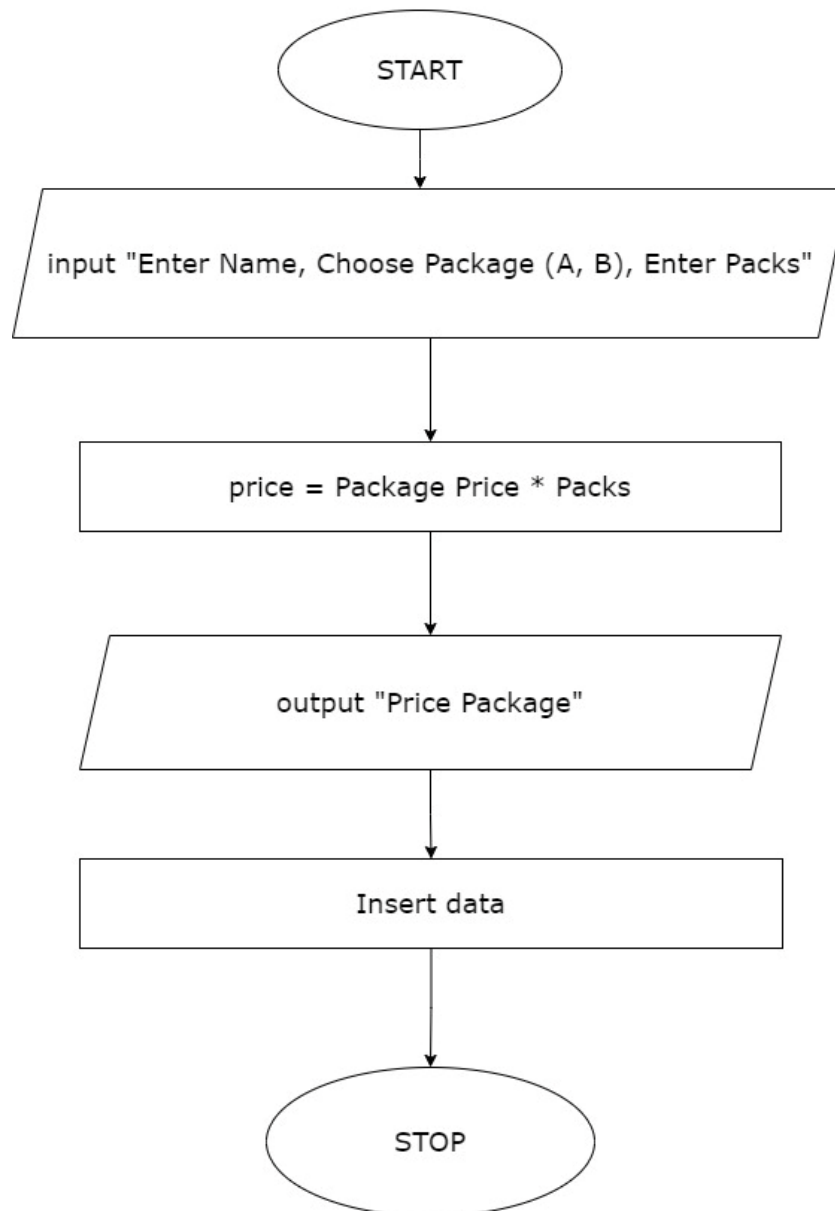
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1.0 INTRODUCTION

This assignment and coding explain that the aquarium fee comes with two different packages, as for package A is for the family package meanwhile packages B is for holiday packages. This coding only consists of customer name, package types, packs, and total price because this coding doesn't need many attributes so the customers no need to bother to enter any information simply to enter the aquarium. This coding is a simple coding for customers to pay their fee before entering the aquarium and this coding also only has a few ways to pay and get the overall prices.
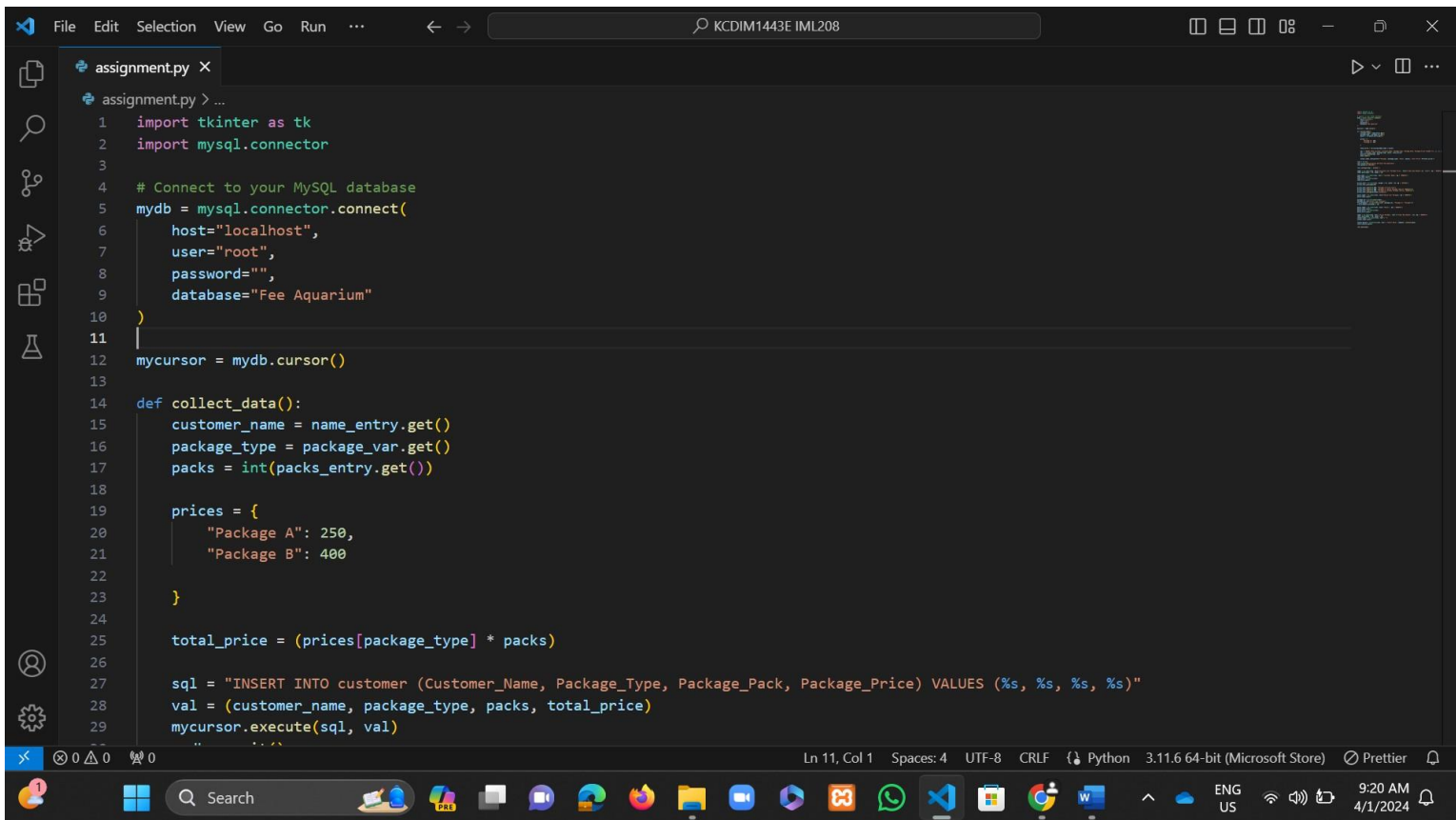
Firstly, customers must scan the set of packages first before they made decision to choose either Package A or Package B. Then, after the customers scan, they need to fill up their name and in this box the customer can fill with any name they wanted for. Next, the customers need to set how many packs are needed for one package and then, the original price for one of the packages will be multiplied by how many packs the customers choose. Finally, the total of price will be shown and after that, the customers can continue pay with the previous prices.

Calculate Your Package Price
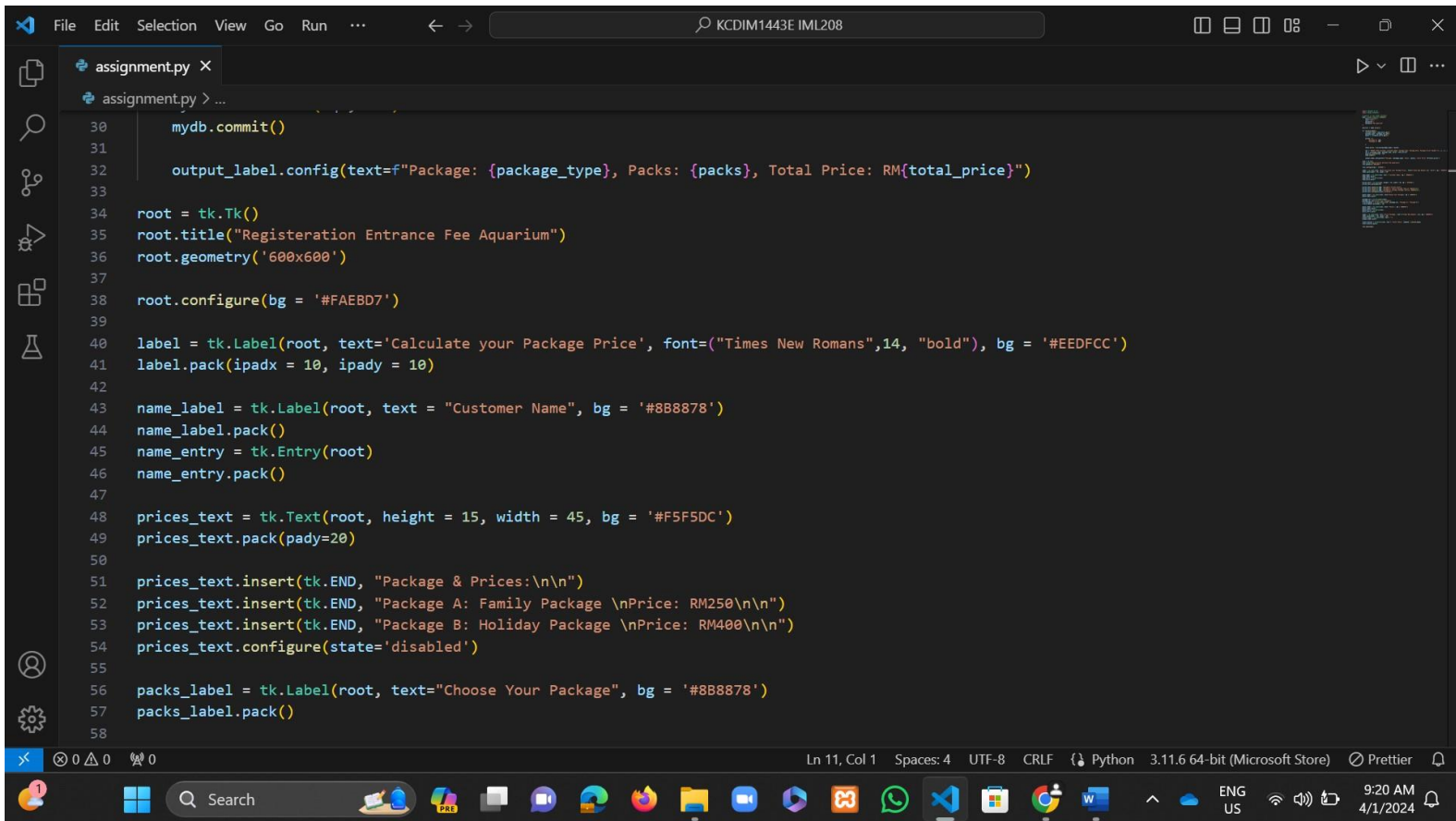
```
                    ( START )
                        |
                        v
    / input "Enter Name, Choose Package (A, B), Enter Packs" /
                        |
                        v
        [ price = Package Price * Packs ]
                        |
                        v
          / output "Price Package" /
                        |
                        v
              [ Insert data ]
                        |
                        v
                   ( STOP )
```

3.0 SNAPSHOT CODE

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

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

mycursor = mydb.cursor()

def collect_data():
    customer_name = name_entry.get()
    package_type = package_var.get()
    packs = int(packs_entry.get())

    prices = {
        "Package A": 250,
        "Package B": 400

    }

    total_price = (prices[package_type] * packs)

    sql = "INSERT INTO customer (Customer_Name, Package_Type, Package_Pack, Package_Price) VALUES (%s, %s, %s, %s)"
    val = (customer_name, package_type, packs, total_price)
    mycursor.execute(sql, val)
```
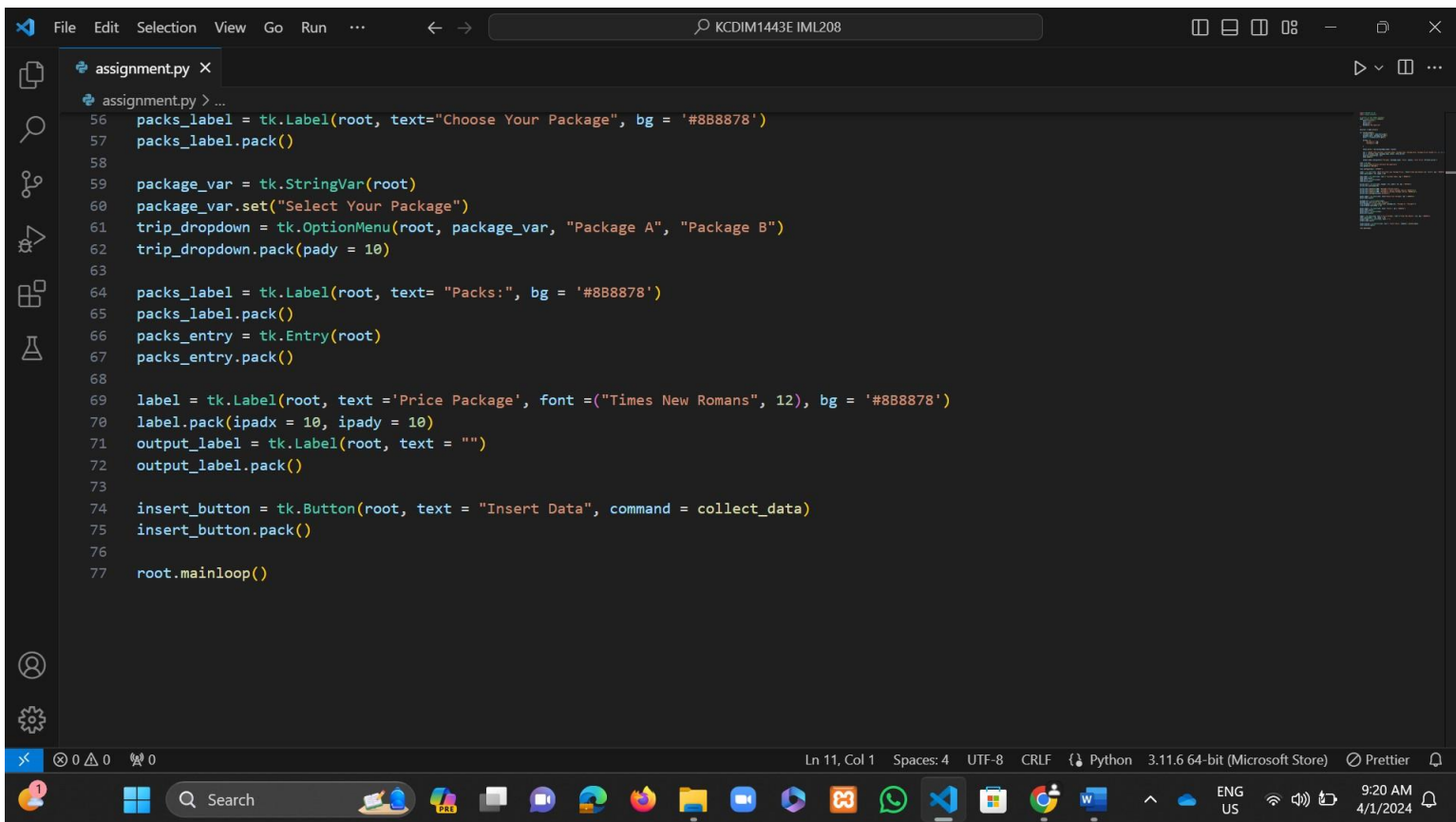
```python
            mydb.commit()

            output_label.config(text=f"Package: {package_type}, Packs: {packs}, Total Price: RM{total_price}")

root = tk.Tk()
root.title("Registeration Entrance Fee Aquarium")
root.geometry('600x600')

root.configure(bg = '#FAEBD7')

label = tk.Label(root, text='Calculate your Package Price', font=("Times New Romans",14, "bold"), bg = '#EEDFCC')
label.pack(ipadx = 10, ipady = 10)

name_label = tk.Label(root, text = "Customer Name", bg = '#8B8878')
name_label.pack()
name_entry = tk.Entry(root)
name_entry.pack()

prices_text = tk.Text(root, height = 15, width = 45, bg = '#F5F5DC')
prices_text.pack(pady=20)

prices_text.insert(tk.END, "Package & Prices:\n\n")
prices_text.insert(tk.END, "Package A: Family Package \nPrice: RM250\n\n")
prices_text.insert(tk.END, "Package B: Holiday Package \nPrice: RM400\n\n")
prices_text.configure(state='disabled')

packs_label = tk.Label(root, text="Choose Your Package", bg = '#8B8878')
packs_label.pack()
```

```python
56    packs_label = tk.Label(root, text="Choose Your Package", bg = '#8B8878')
57    packs_label.pack()
58
59    package_var = tk.StringVar(root)
60    package_var.set("Select Your Package")
61    trip_dropdown = tk.OptionMenu(root, package_var, "Package A", "Package B")
62    trip_dropdown.pack(pady = 10)
63
64    packs_label = tk.Label(root, text= "Packs:", bg = '#8B8878')
65    packs_label.pack()
66    packs_entry = tk.Entry(root)
67    packs_entry.pack()
68
69    label = tk.Label(root, text ='Price Package', font =("Times New Romans", 12), bg = '#8B8878')
70    label.pack(ipadx = 10, ipady = 10)
71    output_label = tk.Label(root, text = "")
72    output_label.pack()
73
74    insert_button = tk.Button(root, text = "Insert Data", command = collect_data)
75    insert_button.pack()
76
77    root.mainloop()
```

4.0 SNAPSHOT GUI

5.0 SNAPSHOT DATABASE

```
-- phpMyAdmin SQL Dump
-- version 5.2.1
-- https://www.phpmyadmin.net/
--
-- Host: 127.0.0.1
-- Generation Time: Jan 04, 2024 at 02:28 AM
-- Server version: 10.4.32-MariaDB
-- PHP Version: 8.2.12

SET SQL_MODE = "NO_AUTO_VALUE_ON_ZERO";
START TRANSACTION;
SET time_zone = "+00:00";


/*!40101 SET @OLD_CHARACTER_SET_CLIENT=@@CHARACTER_SET_CLIENT */;
/*!40101 SET @OLD_CHARACTER_SET_RESULTS=@@CHARACTER_SET_RESULTS */;
/*!40101 SET @OLD_COLLATION_CONNECTION=@@COLLATION_CONNECTION */;
/*!40101 SET NAMES utf8mb4 */;


--
-- Database: `fee aquarium`
--


-- --------------------------------------------------------

--
-- Table structure for table `customer`
--

CREATE TABLE `customer` (
  `Customer_Name` varchar(30) NOT NULL,
  `Package_Type` varchar(20) NOT NULL,
  `Package_Pack` int(10) NOT NULL,
  `Package_Price` int(10) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_general_ci;


--
-- Dumping data for table `customer`
--

INSERT INTO `customer` (`Customer_Name`, `Package_Type`, `Package_Pack`,
`Package_Price`) VALUES
```

```sql
('Nuramni', 'Package A', 3, 750),
('Nur Hidayati', 'Package B', 4, 1600),
('Hanis Farzana', 'Package A', 1, 250),
('Athirah ', 'Package B', 7, 2800),
('Arnani', 'Package A', 10, 2500);
COMMIT;

/*!40101 SET CHARACTER_SET_CLIENT=@OLD_CHARACTER_SET_CLIENT */;
/*!40101 SET CHARACTER_SET_RESULTS=@OLD_CHARACTER_SET_RESULTS */;
/*!40101 SET COLLATION_CONNECTION=@OLD_COLLATION_CONNECTION */;
```