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DIPLOMA IN LIBRARY INFORMATICS (CDIM144)

PROGRAMMING FOR LIBRARY (IML208)

INDIVIDUAL ASSIGNMENT:
BATH AND BODY WORKS SHOPPING SYSTEM

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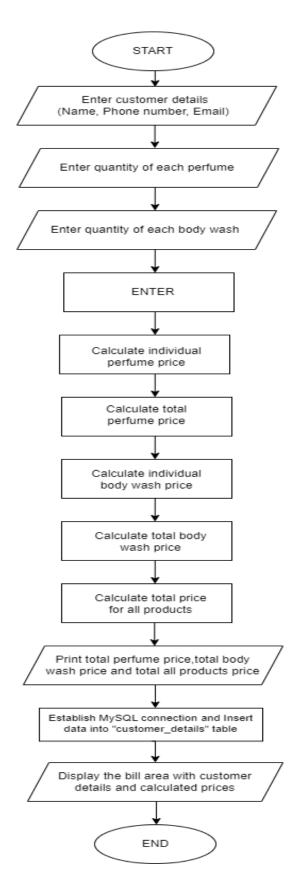
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#### 1.0 INTRODUCTION

The python code that I created is a graphical user interface (GUI) application that uses the Tkinter library. The title for this python code system is Bath & Body Works Shopping. This system allows users to enter their personal as well as choose from a various perfume and body wash products. Other than that, this system also will execute an invoice with the user's total purchase price.

The GUI layout has been decorated with various colours and different fonts to make it aesthetically pleasing and user-friendly. Next, the customer details section includes entry fields that must be filled by customers. The information that users need to fill are name, phone number and email address. This is to ease the process of confirming order, delivery and to generate accurate bills. One of the product selections that customer can choose is perfume. There are total of 5 different perfumes which are 'champagne toast', 'sunset glow', 'in the stars', 'you're the one', and 'into the night'. There are also an entry fields for quantity selection next to each perfume labels. The next product selection is body wash, and this section offers a variety of products at a price of RM10 per piece. Options like "A Thousand Wishes," "Gingham," "Warm Vanilla Sugar," "Strawberry Snowflakes," and "Pure Wonder" are available for users to choose from. The python code also includes a calculation where it calculates the cost of selected products and the bill area displays a thankyou message, customer details, and a detailed invoice summary. This is to ensure users understand the purchase costs. Additionally, this code connects to a MySQL database to store customer data, total perfume and body wash prices, and total purchase amounts. This feature enables easy retrieval of customer information for future reference.

# 2.0 FLOWCHART



#### 3.0 PYTHON CODE

```
indvBBW.py ×

  indvBBW.py > 分 total
  import tkinter as tk

             import mysql.connector
            #perfume calculation
def total():
                              certume calculation
champagnetoast_price = int(champagnetoastEntry.get())*20
sunsetglow_price = int(sunsetglowEntry.get())*20
inthestars_price = int(inthestarsEntry.get())*20
youretheone_price = int(youretheoneEntry.get())*20
intothenight_price = int(intothenightEntry.get())*20
                              total_perfumeprice = champagnetoast_price + sunsetglow_price + inthestars_price + youretheone_price + intothenight_price print("Total Perfume Price:", total_perfumeprice)
                              wash calculation
athousandwishes_price = int(athousandwishesEntry.get()) * 10
gingham_price = int(ginghamEntry.get()) * 10
warmnvanillasugar_price = int(warmvanillasugarEntry.get()) * 10
strawberrysnowflakes_price = int(strawberrysnowflakesEntry.get()) * 10
purewonder_price_bodywash = int(purewonderEntry.get()) * 10
                               total_bodywashprice = athousandwishes_price + gingham_price + warmnvanillasugar_price + strawberrysnowflakes_price + purewonder_price_bodywashprint("Total_Body_Wash_Price:", total_bodywashprice)
                               he calculation for the total of both perfumes and body wash total_all_products = total_perfumeprice + total_bodywashprice print("Total All Products Price:", total_all_products)
                               Customer_details= f"|hANKYOU,DATA INSERTED SUCCESSFULLY|\n\nName:{nameEntry.get()}\nPhone number:{phoneEntry.get()}\nEmail:{emailEntry.get()}"
bill_text = f"Perfume Total:RM {total_perfumeprice}\nBody Wash Total:RM {total_bodywashprice}\nTotal All Products:RM {total_all_products}"
textarea.insert(tk.END, customer_details + "\n\n")
textarea.insert(tk.END, bill_text + "\n\n")
                             blish a connection to the MySQL server
mydb = mysql.connector.connect(
    host="localhost",
    user="root",
    room and ""
                                                                                                                                                                                                                                                                                      Ln 31, Col 29 Spaces: 8 UTF-8 CRLF ( Python 3.12.1 64-I
 indvBBW.py X
                             area customer_details= f"\t\tTHANKYOU!\nYour data has successfully enetered\n\nName:{nameEntry.get()}\nPhone number:{phoneEntry.get()}\nEmail:{emailEntry.get()}"
bill text = f"Perfume Total:RM {total_perfumeprice}\nBody Wash Total:RM {total_bodywashprice}\nTotal All Products:RM {total_all_products}"
textarea.insert(tk.END, customer_details + "\n\n")
textarea.insert(tk.END, bill_text + "\n\n")
                              mydb = mysql.connector.connect(
    host="localhost",
                                     user="root",
password="",
database="bbw_shopping"
                             e a cursor object to interact with the database cursor = mydb.cursor()
                             ting data into a table

sql = "INSERT INTO `customer details` (Name, Phone number, Email,Total perfumeprice,Total bodywashprice, Total allproductprice) VALUES(%s,%s,%s,%s,%s,%s)"

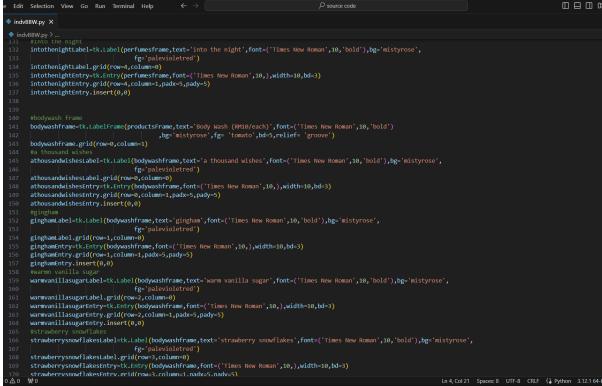
val = (nameEntry.get(),phoneEntry.get(),emailEntry.get(),total_perfumeprice,total_bodywashprice,total_all_products)
                                      cursor.execute(sql, val)
                              cursor.execute(sqt, val)
mydb.commit()
print("Data inserted successfully!")
except mysql.connector.Error as err:
print("Error: {err}")
mydb.rollback()
                             cursor.close()
mydb.close()
           root= tk.Tk()
root.title ("BBW shopping")
root.geometry ('810x300')
```

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```
indvBBW.pv >.
                                              print(†"Error: {err}")
mydb.rollback()
                                    cursor.close()
mydb.close()
              root= tk.Tk()
root.title ("BBW shopping")
root.geometry ('810x300')
              nameLabel=tk.Label(customer_details_frame,text='Name',font=('Times New Roman',10,'bold'),bg='mistyrose'
              | fg= 'palevioletred')
namet.abel.grid (row=0,column=0,ipadx=5,ipady=5)
nameEntry=tk.Entry(customer_details_frame.font=('Times New Roman', 10),bd=3)
nameEntry.grid (row=0,column=1,ipadx=20)
              fg= 'palevioletred')
phonetabel.grid(row=0,column=2,ipadx=5,ipady=5)
phoneEntry=tk.Entry(customer_details_frame_ffont=('Times_New_Roman', 10),bd=3)
phoneEntry.grid (row=0,column=3,ipadx=10)
               emailLabel=tk.Label(customer details frame,text='Email',font=('Times New Roman',10,'bold'),bg='mistyrose'
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   Edit Selection View Go Run Terminal Help

    Source code
    Sourc
                                                                                                                                                                                                                                                                                                                                                                                                                                                       \Pi \sqcap \Pi \cong
phoneLabel=tk.Label(customer_details_frame,text='Phone',font=('Times New Roman',10,'bold'),bg='mistyrose'
                  ,fg= 'palevioletred')
phoneLabel.grid(row=0,column=2,ipadx=5,ipady=5)
phoneEntry=tk.Entry(customer_details_frame,font=('Times New Roman', 10),bd=3)
phoneEntry.grid (row=0,column=3,ipadx=10)
                 | fg= 'palevioletred')
emailLabel.grid(row=0,column=4,ipadx=10,ipady=5)
emailEntry=tk.Entry(customer_details_frame_font=('Times_New_Roman', 10),bd=3)
emailEntry.grid (row=0,column=5,ipadx=30)
                  #products frame
productsFrame=tk.Frame(root)
productsFrame.pack(pady=3)
```

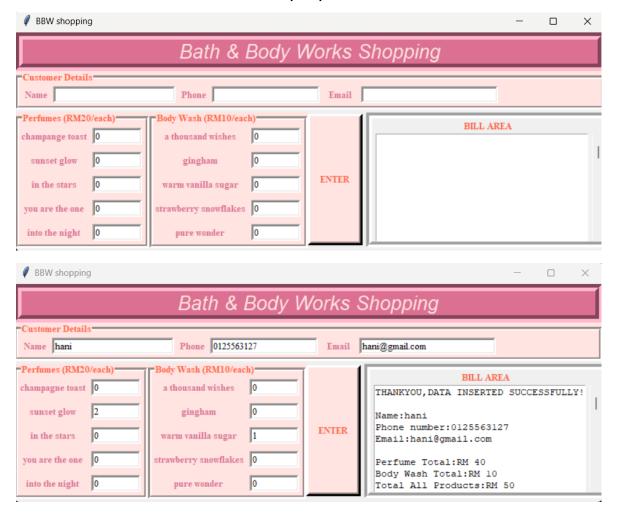
champagnetoastLabel=tk.Label(perfumesframe,text='champagne toast',font=('Times New Roman',10,'bold'),bg='mistyrose',



```
indvBBW.py ×
indvBBW.py > ...
156    ginghamEntry.grid(row=1,column=1,padx=5,pady=5)
157    ginghamEntry.insert(0,0)
          warmvanillasugarLabel=tk.Label(bodywashframe,text='warm vanilla sugar',font=('Times New Roman',10,'bold'),bg='mistyrose',
         warmvanillasugarLabel_ctk.Label(DouywashTrame,text='warm vanilla sugar',font=('Times New F fg='palevioletred')
warmvanillasugarLabel.grid(row=2,column=0)
warmvanillasugarEntry=tk.Entry(bodywashframe,font=('Times New Roman',10,),width=10,bd=3)
warmvanillasugarEntry.grid(row=2,column=1,padx=5,pady=5)
warmvanillasugarEntry.insert(0,0)
         fg='palevioletred')
strawberrysnowflakesLabel.grid(row=3,column=0)
strawberrysnowflakesLabel.grid(row=3,column=0)
strawberrysnowflakesEntry=tk.Entry(bodywashframe,font=('Times New Roman',10,),width=10,bd=3)
strawberrysnowflakesEntry.grid(row=3,column=1,padx=5,pady=5)
strawberrysnowflakesEntry.insert(0,0)
#pure wonder
          strawberrysnowflakesLabel=tk.Label(bodywashframe,text='strawberry snowflakes',font=('Times New Roman',10,'bold'),bg='mistyrose',
         #enter frame
buttonFrame=tk.Frame(productsFrame,bd=8,relief='groove')
         buttonFrame.grid(row-9,column-2,padx=5)
enterButton=tk.Button(productsFrame,text='ENTER',font=('Times New Roman',10,'bold'),bd=5,bg='mistyrose'
fg= 'tomato',padx=10,pady=75,command=total)
enterButton.grid(row-0,column-2)
          #billframe
billframe-tk.Frame(productsFrame,bd=8,relief='groove')
billframe.grid(row=0,column=3,ipadx=5,padx=5)
          billareaLabel.pack()
| 194 | scrollbar=tk.Scrollbar(billframe,orient='vertical')
| 195 | scrollbar.nack(side='right'. fill='v')
| ΔΟ | №0
                                                                                                                                                                                                   Ln 4, Col 21 Spaces: 8 UTF-8 CRLF ( Python 3.12.1 64-1
                                                                                                                                                                                                                                                          indvBBW.py ×
         mbillframe
billframe-tk.Frame(productsFrame,bd=8,relief='groove')
billframe.grid(row=0,column=3,ipadx=5,padx=5)
          billareatabel=tk.tabel(billframe,text='BILL AREA',font=('Times New Roman',10,'bold'),fg= 'tomato') billareatabel.pack()
         scrollbar-tk.scrollbar(billframe,orient='vertical')
scrollbar.pack(side='right', fill='y')
textarea=tk.Text(billframe,width=36,height=9)
textarea.pack()
scrollbar.config(command=textarea.yview)
          root.mainloop()
```

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# 3.0 GRAPHICAL USER INTERFACE (GUI)



#### 5.0 DATABASE

