

UNIVERSITI TEKNOLOGI MARA (UITM)

CAWANGAN KEDAH, SUNGAI PETANI

COLLEGE OF COMPUTING, INFORMATICS AND MATHEMATICS

DIPLOMA OF LIBRARY INFORMATICS (CDIM 144)

PENGATURCARAAN UNTUK PERPUSTAKAAN (IML208)

INDIVIDUAL ASSIGNMENT: ZODIAC SIGN PERSONALITY DETERMINATION

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SUBMISSION DATE:

WEEK 12

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DIPLOMA IN LIBRARY INFORMATICS COLLEGE OF COMPUTING, INFORMATICS AND MEDIA UNIVERSITI TEKNOLOGI MARA (UITM) CAWANGAN KEDAH

WEEK 12



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ACKNOWLEDGEMENT

Assalamualaikum W.B.T

KIM1443B

I would like to convey my sincere gratitude to my lecturer Sir Airul Shazwan Bin Norshahimi, for her guidance and for helping me in completing in my assignment. This assignment is understandable because of her help. As a student I am still learning. During completing this assignment, I learnt something new and valuable.

This acknowledgement meant more to me than any grade could ever convey. It validated all of the hard work and dedication I had put into this project and gave me a boost of confidence in my academic abilities. Acknowledging our own efforts is just as important.

Last but not least, I also would like to thank my family for their support in accomplish this assignment. They give me some money that I need for this project so that I can finish it. Their encouragement motivated me to complete the task I am motivated by their support.

Sincerely,	
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1.0 INTRODUCTION

This interactive Python application, built using the Tkinter library, empowers users to explore the intriguing world of astrology and unveil insights into their personalities based on their zodiac signs. The aesthetically pleasing interface, adorned with twinkling stars, creates a captivating ambiance for users to input their personal information and discover the characteristics associated with their zodiac signs. Through the fusion of programming and astrological concepts, this application delivers an engaging and personalized experience, offering not only zodiac sign insights but also an exploration of personality traits that align with each sign.

The program begins with an interactive GUI where users input their name, gender, and date of birth. As stars twinkle in the background, the application dynamically calculates the user's zodiac sign and corresponding personality traits. The program employs Python's Tkinter for GUI development and incorporates random star generation for a visually appealing backdrop. The logic behind zodiac sign determination, personality profiling, and age calculation enhances the user experience, providing a comprehensive overview of astrological insights. Users can save their information for future reference, making this program a versatile tool for self-discovery and reflection.

Upon entering personal details, users can click the "Calculate" button to instantly receive information about their zodiac sign, associated personality traits, and a breakdown of their age in years, months, and days. The application not only displays the results on the interface but also prints them in the terminal for users to review. With the option to save information and a convenient clear button to reset fields, the program ensures a user-friendly and efficient experience. Dive into the cosmos, explore your zodiac, and unravel the mysteries of your personality with the Zodiac Sign Personality Determination program.

1.1 REPORT ON THE PYTHON CODE: ZODIAC: SIGN PERSONALITIES TRAIT PERSONALITY PREPARATION.

The code utilizes the Tkinter library to create a graphical user interface for determining a person's zodiac sign, personality traits, and age based on their input.

Stars are randomly generated on the canvas, creating a twinkling effect.

User Interface:

Input fields for the user's name, gender, and date of birth (DOB) are provided. Labels and entry widgets are styled with different fonts and colors for better readability.

Twinkling Stars:

The create_star function randomly generates stars on the canvas, contributing to the aesthetic appeal of the application.

Zodiac Sign Determination:

A function calculate_zodiac_sign determines the zodiac sign based on the provided date of birth.

Personality Determination:

The determine_personality function assigns personality traits corresponding to each zodiac sign.

Age Calculation:

The calculate_age function calculates the age of the user in years, months, and days based on the provided DOB.

Calculate Button:

The "Calculate" button triggers the calculation of zodiac sign, personality traits, and age when clicked.

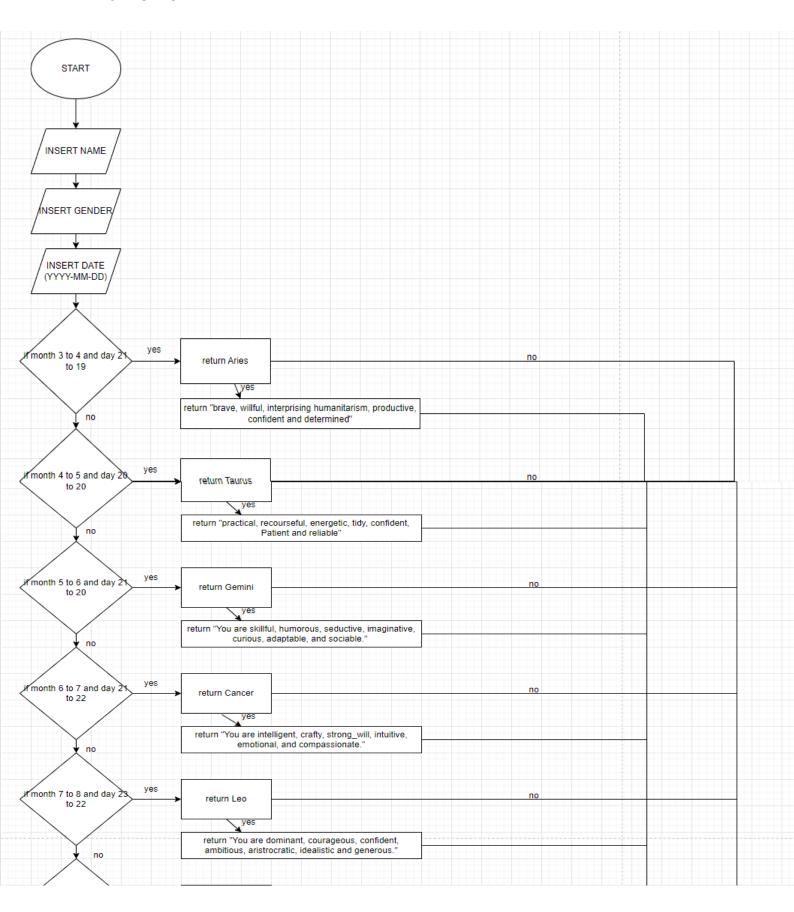
Result Display:

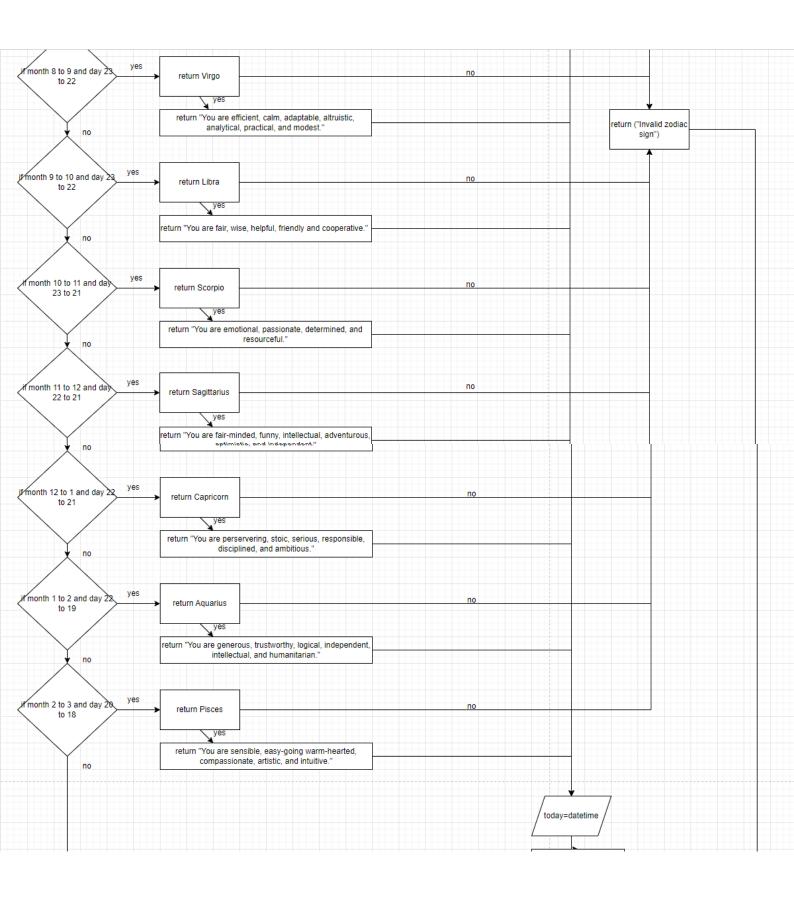
The results are displayed on the GUI using a label widget.

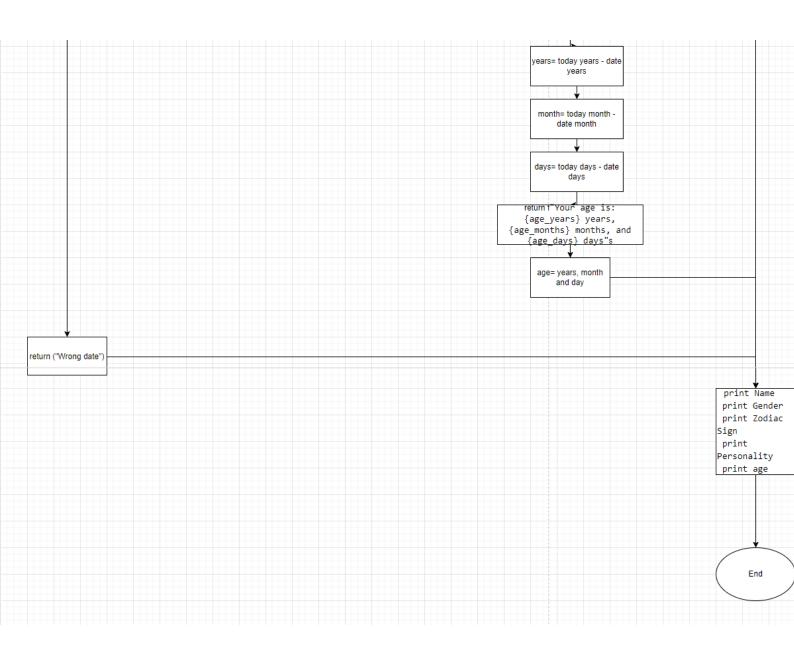
Clear Button:

The "Clear" button resets all input fields and clears the result label when clicked.

2.0 FLOW CHART







3.0 Coding

3.1 Python Programming

```
∠ Search

                                                                                                                                                                             ★ File Edit Selection View Go Run ···
       zodiac_sign_correction.py X
                                                                                                                                                                                                   ▷ ~ □ …
D
       D: > sen
                  iter 3 > 🏶 zodiac_sign_correction.py >
Q
                import tkinter as tk
from datetime import datetime
مړ
                import random
                def save():
$
                   #user info
                    name = name_entry.get()
gender = gender_entry.get()
date = dob_entry.get()
品
         10
Д
         12
                #create star
                def create star(canvas):
         13
څ
                   x = random.randint(0, 800)
                    y = random.randint(0, 600)
size = random.randint(1, 3)
         15
                    canvas.create_oval(x, y, x+size, y+size, fill="white")
         18
                   root.title("Zodiac Sign Personality Determination")
root.geometry("1280x1830")
         20
         21
                root = tk.Tk()
         23
         24
               # Placing the canvas to cover the whole window
canvas = tk.Canvas(root, width=800, height=600, bg="black")
canvas.place(x=0, y=0, relwidth=1, relheight=1)
         26
         28
8
                # Labels for input fields
         29
                name_label=tk.Label(root ,text="ZODIAC SIGN", font=("castellar", 50), bg=("gold"))
         31
                name label.pack()
                name_label = tk.Label(root, text="Name:",font=('slab serif', 25), bg=("blue"))
          34
                name_label.pack(padx=10, pady=12)
name_entry = tk.Entry(root)
          35
          36
37
                name_entry.pack(padx=5, pady=6)
                gender_label = tk.Label(root, text="Gender:", font=('slab serif', 25), bg=("blue"))
          39
                gender_label.pack(padx=20, pady=22)
          41
42
                gender_entry.pack(padx=5, pady=6)
                dob_label = tk.Label(root, text="Date of Birth (YYYY-MM-DD):", font=('slab serif', 25), bg=("blue"))
          44
                dob label.pack(padx=26, pady=28)
                dob_entry = tk.Entry(root)
          46
47
                dob_entry.pack(padx=5, pady=6)
                for _ in range(100):
create_star(canvas)
          48
49
          50
                # Function to calculate zodiac sign based on date of birth
                if (month == 3 and day >= 21) or (month == 4 and day <= 19):
    return "Aries"</pre>
          55
56
         57
58
59
60
61
62
63
64
65
66
                     elif (month == 4 and day >= 20) or (month == 5 and day <= 20):
                     elif (month == 5 and day >= 21) or (month == 6 and day <= 20):
                     elif (month == 6 and day >= 21) or (month == 7 and day <= 22):
                     elif (month == 7 and day >= 23) or (month == 8 and day <= 22):
                     elif (month == 8 and day >= 23) or (month == 9 and day <= 22):
                     elif (month == 9 and day >= 23) or (month == 10 and day <= 22):
         67
68
         69
70
71
72
                     elif (month == 10 and day >= 23) or (month == 11 and day <= 21):
                     elif (month == 11 and day >= 22) or (month == 12 and day <= 21):
                     return "Sagittarius"
elif (month == 12 and day >= 22) or (month == 1 and day <= 19):
         73
74
75
76
77
78
                     elif (month == 1 and day >= 20) or (month == 2 and day <= 18):
                    return "Aquarius"
elif (month == 2 and day >= 19) or (month == 3 and day <= 20):
return "Pisces"
         79
80
                    return ("Wrong date")
```

```
83
84
               determine_personality(zodiac_sign):
                if zodiac_sign == "Aries":
    return "brave, willful, enterprising humanitarism, productive, Confident and determined"
                elif zodiac_sign == "Taurus":
return "practical, recourseful, energetic, tidy, confident, Patient and reliable"
86
87
                elif zodiac_sign == "Gemini":

return "You are skillful, humorous, seductive, imaginative, curious, adaptable, and sociable."
88
89
90
91
                elif zodiac_sign == "Cancer":
return "You are intelligent, crafty, strong will, intuitive, emotional, and compassionate.'
               elif zodiac_sign == "Leo":

return "You are dominant, courageous, confident, ambitious, aristrocratic, idealistic and generous."
 92
93
94
               return "You are dominant, courageous, confident, ambitious, aristrocratic, idealistic and gen elif zodiac_sign == "Virgo":
    return "You are efficient, calm, adaptable, altruistic, analytical, practical, and modest." elif zodiac_sign == "Libra":
    return "You are fair, wise, helpful, friendly and cooperative." elif zodiac_sign == "Scorpio":
    return "You are emotional, passionate, determined, and resourceful." elif zodiac_sign == "Sagittarius":
    return "You are fair-minded, funny, intellectual, adventurous, optimistic, and independent." elif zodiac_sign == "Campicono":
 95
96
97
 98
99
100
101
102
103
                elif zodiac_sign == "Capricorn":
                ellf zodiac_sign == "Capricorn":

return "You are perservering, stoic, serious, responsible, disciplined, and ambitious."

elif zodiac_sign == "Aquarius":

return "You are generous, trustworthy, logical, independent, intellectual, and humanitarian."

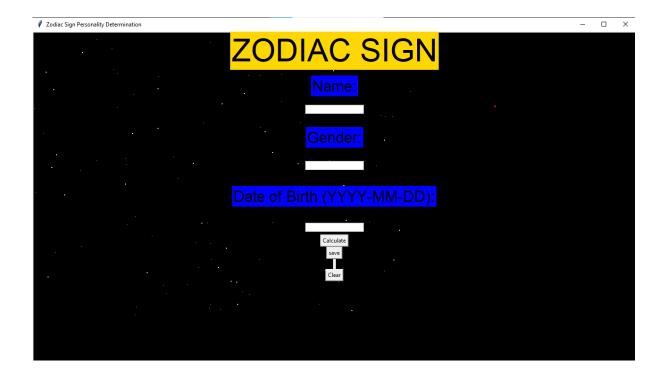
elif zodiac_sign == "Pisces":
104
105
               elif zodiac_sign ==
106
                    return "You are sensible, easy-going warm-hearted, compassionate, artistic, and intuitive."
107
108
109
                   return ("Invalid zodiac sign.")
110
111
          # Function to calculate age in years, months, and days
             f calculate_age(dob):
112 \
113
               today = datetime.today()
               dob_entry = datetime.strptime(dob, '%Y-%m-%d')
               # Calculate age in years
116
               age_years = today.year - dob_entry.year
if today.month < dob_entry.month or (today.month == dob_entry.month and today.day < dob_entry.day):</pre>
118 \
               age_years -= 1
120
121
                dob_month_day = datetime(today.year, dob_entry.month, dob_entry.day)
                if today < dob month day:
123 \
                   age_months = today.month + 12 - dob_entry.month
125 \
                else:
                  age_months = today.month - dob_entry.month
128
               age days = (today - dob month day).days
129
               return f"Your age is: {age_years} years, {age_months} months, and {age_days} days"
130
131
132 🗸
          def calculate_zodiac_and_personality():
              dob = dob_entry.get()

dob_date = datetime.strptime(dob, "%Y-%m-%d")

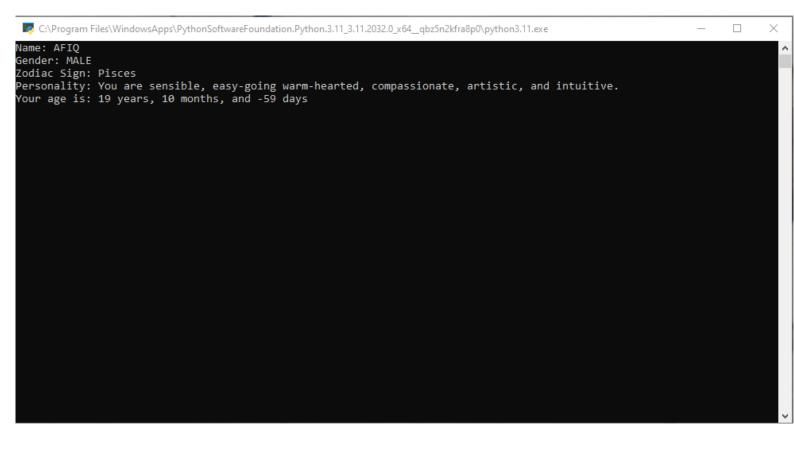
zodiac_sign = calculate_zodiac_sign(dob_date.day, dob_date.month)

personality = determine_personality(zodiac_sign)
133
135
136
               age_result = calculate_age(dob)
result_label.config(text=f"Zodiac Sign: {zodiac_sign}\nPersonality: {personality}\n{age_result}")
137
138
139
          # Display result in the terminal
  print(f"Name: {name_entry.get()}")
  print(f"Gender: {gender_entry.get()}")
  print(f"Zodiac Sign: {zodiac_sign}")
  print(f"Personality: {personality}")
140
141
142
143
144
               print(age_result)
145
146
               print("\n")
147
148
149
         # Create a button to calculate zodiac sign and personality
calculate_button = tk.Button(root, text="Calculate", command=calculate_zodiac_and_personality)
150
151
152
          save_button = tk.Button(root, text="save", command=save)
153
          save_button.pack()
154
         result label = tk.Label(root, text="")
156
157
          result_label.pack()
158
159
         # Function to clear all input fields
160
          def clear_fields():
              name_entry.delete(0, 'end')
gender_entry.delete(0, 'end')
161
162
              dob_entry.delete(0, 'end')
result_label.config(text="")
163
164
         # Create a button to clear input fields
166
167
          clear_button = tk.Button(root, text="Clear", command=clear_fields)
168
          clear_button.pack()
169
170
171
          root.mainloop()
```

4.0 GRAPHICAL USER INTERFACE (GUI)



5.0 TERMINAL



6.0 CONCLUSION

In conclusion, the concept of programming zodiac sign determination offers a unique perspective on the correlation between an individual's personality traits and their aptitude for programming. I have explored the different zodiac signs and their corresponding characteristics, highlighting how these traits can be advantageous or disadvantageous in the field of programming. It is important to note that while zodiac sign determination can provide some insights, it should not be seen as a definitive factor in determining one's abilities or success as a programmer.

Firstly, individuals born under certain zodiac signs may possess inherent qualities that align with the skills required in programming. For example, those born under the sign of Gemini are known for their adaptability and quick thinking, which can be highly beneficial in problem-solving situations. On the other hand, individuals born under Taurus may exhibit persistence and attention to detail, making them meticulous programmers who excel at debugging and refining code.

However, it is crucial to recognize that these traits are not exclusive to specific zodiac signs. People from all walks of life can develop these skills through education, practice, and experience. Therefore, it would be unfair to limit opportunities based solely on someone's zodiac sign.

To sum up, while programming zodiac sign determination offers an interesting perspective on personality traits related to programming abilities, it should not be considered as a definitive factor when assessing someone's potential in this field. Instead of relying solely on astrology-based determinations, it is essential to focus on providing equal opportunities for everyone interested in pursuing a career in programming. By fostering inclusivity and recognizing individual talents regardless of astrological factors, we can create a more diverse and thriving community within the world of coding.

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