



Lyceum of the Philippines University
College of Engineering, Computer Studies and Architecture
Department of Computer Studies



DCSN03C- COMPUTER PROGRAMMING 2 AY2023-2024

**Name: Cawaling, Josh Ezekiel
Mercado, Jerick Francis**

Section: CS-101

Program

Road to Giga Chad Goals, Progress and Routine Tracker

Overview

Our program is designed to help users improve their self-discipline by tracking and managing their daily activities and accumulate points based on completed tasks. It allows users to add activities, mark them as completed, track their Giga Chad points, and view their daily and yearly progress.

Functional Requirements:

1. Add Activity and Schedule:

- Users can input an activity along with its associated Giga Chad points.
- The program records the current time in the Philippine timezone when the activity is added.

2. Mark Activity as Completed:

- Users can view a list of activities and choose one to mark as completed.
- Upon completion, the activity is removed from the list, and its Giga Chad points are added to the user's total.
- Yearly points are updated accordingly.

3. Track Giga Chad Points:

- The program calculates and displays the total Giga Chad points earned by the user.
- If the total points reach or exceed 100, a congratulatory message is displayed.

4. Display Current Day and Accumulated Points:

- Users can view the current day, month, and year along with the total Giga Chad points accumulated for the month.

5. Display Yearly Points:

- Users can view the Giga Chad points accumulated for each year.
- Points are displayed in ascending order of the year.

6. Exit Program:

- Users can choose to exit the program, ending the session.

7. Resetting Giga Chad Points Daily:

- At the end of each session (upon program exit), the daily Giga Chad points are reset.

Solution (Program Code)

```
import datetime

# Function to get the current time in the Philippine timezone
def get_philippine_time():
    return datetime.datetime.utcnow() + datetime.timedelta(hours=8)

# Function to add activity and schedule
def add_activity(activities):
    activity = input("Enter the activity: ")
    try:
        points = int(input("Enter the Giga Chad points for this activity: "))
    except ValueError:
        print("Invalid input for points. Activity not added.")
        return

    # Get current time in Philippine timezone
    current_time = get_philippine_time().time()
    activities.append((activity, current_time, points))
    print("Activity added successfully!")

# Function to mark activity as completed
def complete_activity(activities, yearly_points):
    if not activities:
        print("No activities to complete.")
        return None

    print("Activities:")
    for i, activity in enumerate(activities, start=1):
        print(f"{i}. {activity[0]} at {activity[1].strftime('%I:%M %p')}")

    try:
        choice = int(input("Enter the number of the activity to mark as completed: "))
        if 1 <= choice <= len(activities):
            completed_activity = activities.pop(choice - 1)
            print(f"{completed_activity[0]} completed at
```

```

{completed_activity[1].strftime('%I:%M %p')})")

    # Get current year
    current_year = get_philippine_time().year
    # Update yearly points
    if current_year in yearly_points:
        yearly_points[current_year] += completed_activity[2]
    else:
        yearly_points[current_year] = completed_activity[2]

    return completed_activity[2]
else:
    print("Invalid activity number.")
    return None
except ValueError:
    print("Invalid input. Please enter a valid number.")
    return None

# Function to track Giga Chad points
def track_points(points):
    total_points = sum(points)
    print("Your total Giga Chad points:", total_points)

    # Checking if threshold is reached
    if total_points >= 100:
        print("\033[3mCongratulations! You did many things today towards being a
Giga Chad. Keep improving!\033[0m")

# Function to display current day, month, year, and accumulated Giga Chad points
def display_day_and_points(points):
    current_time = get_philippine_time()
    current_day = current_time.strftime('%A')
    current_month = current_time.strftime('%B')
    current_year = current_time.strftime('%Y')
    total_points = sum(points)
    print(f"Today is {current_day}, {current_month} {current_year}.")
    print(f"You have accumulated {total_points} Giga Chad points this month.")

# Function to display points accumulated each year
def display_yearly_points(yearly_points):
    if not yearly_points:
        print("No points accumulated yet.")
    else:
        print("Points accumulated each year:")
        for year, points in sorted(yearly_points.items()):
            print(f"{year}: {points} Giga Chad points")

# Main program
def main():
    activities = []
    points = []
    yearly_points = {}
    print("Welcome to our Self-Discipline program!\n \033[3mYour road to being a
Giga chad starts here.\033[0m")

    while True:
        print("\n1. Add activity and schedule")
        print("2. Mark activity as completed")

```

```

print("3. Track Giga Chad points")
print("4. Display current day and accumulated points")
print("5. Display points accumulated each year")
print("6. Exit")

choice = input("Enter your choice: ")

if choice == '1':
    add_activity(activities)
elif choice == '2':
    completed_points = complete_activity(activities, yearly_points)
    if completed_points is not None:
        points.append(completed_points)
elif choice == '3':
    track_points(points)
elif choice == '4':
    display_day_and_points(points)
elif choice == '5':
    display_yearly_points(yearly_points)
elif choice == '6':
    print("Exiting program.")
    break
else:
    print("Invalid choice. Please try again.")

# Resetting Giga Chad points daily
points.clear()

if __name__ == "__main__":
    main()

```

Output:

