

| Post Mortem Review Question | Response |
|--|--|
| What was the purpose of your program? | Let the user schedule a time to run a 5k. using a program called race scheduler |
| How could your program be useful in the real world? | Could allow other companies to schedule interviews. or any other scheduling needs. |
| What is a problem you ran into, and how did you fix it? | I ran into problems with the sun_data file in my IDE. I had to use the Path instead of the relative path |
| Describe one thing you would do differently the next time you write a program. | Maybe attach a database instead of a minor db like an csv file |
| How could your program be generalized and useful in other areas? | A tool for finding sunrise times from a CSV file and scheduling events based on those times. |

Pseudocode

START

- ❖ Import csv and builtins
- ❖ Initialize hasRan debug
- ❖ Initialize file_name
- ❖ If debug == true
 - Set file_name to "C:/Users/1300286/Desktop/FLVS/Procedural Programming/sun_data.csv"
- ❖ Define input
 - Set input to builtins.input strip and lowercase
 - If input == quit
 - Print "Thank you for your time! Goodbye :)"
 - Quit
 - If input is blank
 - Return default
 - Return input
- ❖ Define find_sunrise_time
 - Set found to False
 - Initialize some globals
 - With open file_name set as file
 - Csv_reader = read csv file
 - Foreach row in file
 - Set data sunrise_time location to row
 - If sunrise_time == search_time
 - ◆ Set found to true
 - ◆ Print "Sunrise time {search_time} found on {date} at {location}."
 - ◆ Break
 - If not found
 - print 'Sunrise time "{search_time}" not found in the dataset.\n\n'
 - Return found
- ❖ Define main()
 - Initiaialize globals
 - Set search_time to input("Please enter the sunrise time you are looking for (e.g., 06:45): ", "")
 - Set found to find_sunrise_time(search_time)

- If found
 - `Schedual_choice = input("Would you like to schedule the race for this time? (yes/no): ", "yes")`
 - If `schedual_CHOICE == YES`
 - Set `hasRan` to true
 - `print "Race scheduled for {search_time}."`
 - Else
 - `Print "Race not scheduled. Please choose another time."`
- `Print "Thank you for using the Sunrise Beach 5K Race Scheduler. Have a great day!"`
- ❖ `Print "\nType quit to quit the program.\n"`
- ❖ `Print "We need to find a weekend date with a sunrise at 6:45 a.m. for the perfect race experience."`
- ❖ While not `hasRan`
 - Call `main()`

END

Code

```
import csv
import builtins
hasRan=False
debug =False
file_name = "sun_data.csv"
# if the program is in debug mode use my location path
if debug:
    file_name = "C:/Users/1300286/Desktop/FLVS/Procedural
Programming/sun_data.csv"
# override the default input to include a default and a quit message
def input(prompt:object="",default=""):
    input = builtins.input(prompt).strip().lower()
    # if the input equals quit quit the program
    if (input == "quit"):
        print("Thank you for your time! Goodbye :)")
        quit()
    if (input==""):
        return default
    return input
def find_sunrise_time(search_time):
    found = False
    global file_name

    # Open the CSV file and read the contents
    with open(file_name) as file:
        csv_reader = csv.reader(file)
        header = next(csv_reader) # Skip the header row

    # Iterate through each row in the CSV file
    for row in csv_reader:
        date, sunrise_time, location = row

        # Check if the current row's sunrise time matches the search time
        if sunrise_time == search_time:
            found = True
            print(f"Sunrise time {search_time} found on {date} at
{location}.")
            break

    # If the sunrise time was not found
    if not found:
        print(f'Sunrise time "{search_time}" not found in the dataset.\n\n')
```

```

        return found

def main():
    global hasRan

    # Ask for user input
    search_time = input("Please enter the sunrise time you are looking for (e.g.,
06:45): ", "")

    # Find the sunrise time in the CSV file

    found = find_sunrise_time(search_time)

    # Additional user input if the sunrise time was found
    if found:
        schedule_choice = input("Would you like to schedule the race for this
time? (yes/no): ", "yes")
        if schedule_choice == 'yes':
            hasRan=True

            print(f"Race scheduled for {search_time}.")
        else:
            print("Race not scheduled. Please choose another time.")

    print("Thank you for using the Sunrise Beach 5K Race Scheduler. Have a great
day!")

print("\nType quit to quit the program.\n")
# welcome the user
print("Welcome to the Sunrise Beach 5K Race Scheduler!")
print("We need to find a weekend date with a sunrise at 6:45 a.m. for the perfect
race experience.")
# Run the main function unless hasRan = True
while not hasRan:

    main()

```