

Assignment

Problem Solving And Advance Programming Concept

Name: Riju kumar saha

Roll No. : 2501940018

MCA(AI & ML)

Code:-

def main():

1. Welcome Message

print("--- Simple Student Attendance Tracker ---")

print("This tool helps you record student check-in times.\n")

Dictionary to store data (Key = Name, Value = Time)

attendance_list = {}

2. Get the number of students

while True:

try:

We use int() to convert the text input into a number

num_students = int(input("How many students do you want to record?"))

if num_students > 0:

break # Exit the loop if the number is valid

print("Please enter a number greater than 0.")

except ValueError:

print("Invalid input! Please enter a number.")

print("\n--- Recording Data ---")

3. Collect Data Loop

```

for i in range(num_students):

    print(f"\nStudent {i + 1}:")

    # Get the Name

    while True:

        name = input(" Enter Name: ").strip()

        if name == "":

            print(" Error: Name cannot be empty.")

        elif name in attendance_list:

            print(" Error: This student is already recorded.")

        else:

            break # Name is good

    # Get the Time

    while True:

        time = input(" Enter Time (e.g., 09:00 AM): ").strip()

        if time == "":

            print(" Error: Time cannot be empty.")

        else:

            break # Time is good

    # Save to our dictionary

    attendance_list[name] = time

    print(" Saved!")

# 4. Display Results

print("\n" + "="*40)

print(f'{{'Student Name':<20}} | {{'Time':<15}}')

print("-" * 40)

```

```
for name, time in attendance_list.items():
```

```
    print(f'{name:<20} | {time:<15}')
```

```
print("-" * 40)
```

```
print(f'Total Present: {len(attendance_list)}')
```

```
print("="*40)
```

```
# 5. Save to File (Optional)
```

```
save = input("\nDo you want to save this to a file? (yes/no): ").lower()
```

```
if save == "yes" or save == "y":
```

```
    # Opens (or creates) a file named 'attendance.txt'
```

```
    with open("attendance.txt", "w") as file:
```

```
        file.write("Student Attendance Record\n")
```

```
        file.write("="*30 + "\n")
```

```
        for name, time in attendance_list.items():
```

```
            file.write(f'{name}: {time}\n')
```

```
        file.write("="*30 + "\n")
```

```
        file.write(f'Total: {len(attendance_list)}\n')
```

```
    print("Success! Saved to 'attendance.txt'.")
```

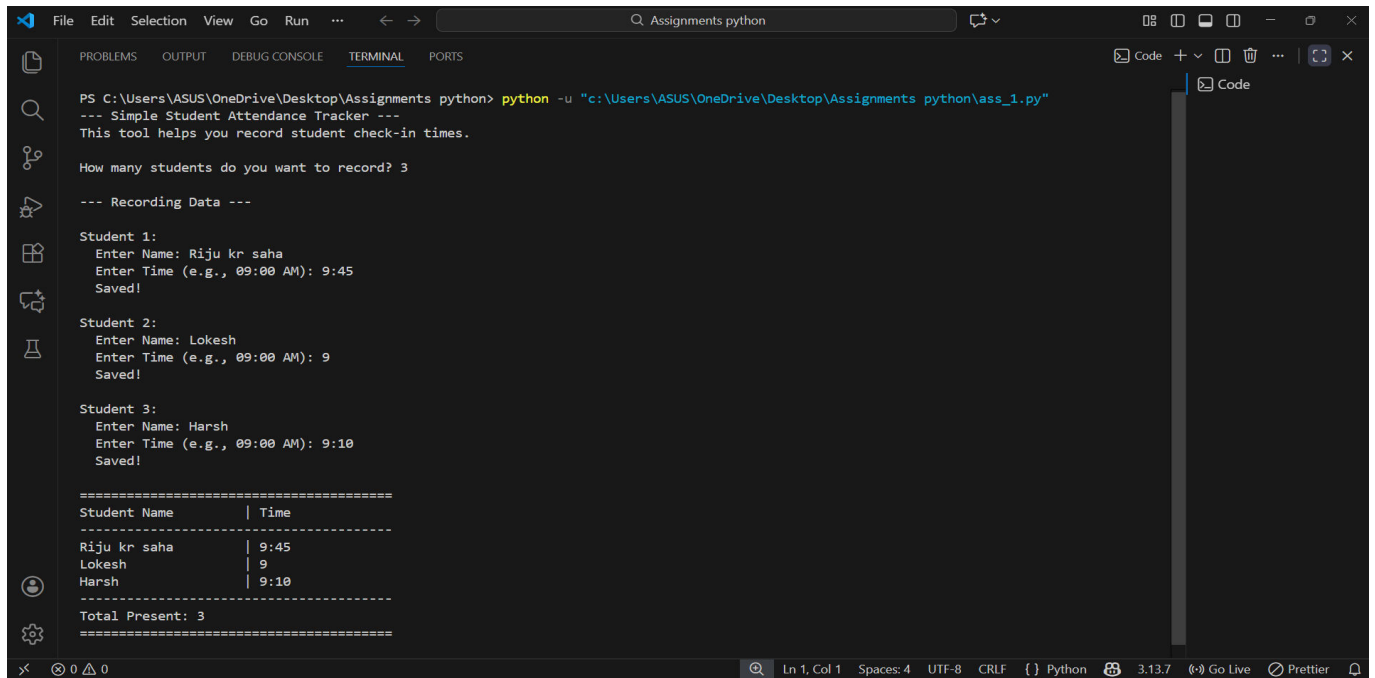
```
print("\nDone. Have a great day!")
```

```
# Run the program
```

```
if __name__ == "__main__":
```

```
    main()
```

Output:



```
PS C:\Users\ASUS\OneDrive\Desktop\Assignments python> python -u "c:\Users\ASUS\OneDrive\Desktop\Assignments python\ass_1.py"
--- Simple Student Attendance Tracker ---
This tool helps you record student check-in times.

How many students do you want to record? 3

--- Recording Data ---

Student 1:
Enter Name: Riju kr saha
Enter Time (e.g., 09:00 AM): 9:45
Saved!

Student 2:
Enter Name: Lokesh
Enter Time (e.g., 09:00 AM): 9
Saved!

Student 3:
Enter Name: Harsh
Enter Time (e.g., 09:00 AM): 9:10
Saved!

=====
Student Name      | Time
-----
Riju kr saha     | 9:45
Lokesh           | 9
Harsh            | 9:10
-----
Total Present: 3
=====
```

Tracker.txt



```
PS C:\Users\ASUS\OneDrive\Desktop\Assignments python> python -u "c:\Users\ASUS\OneDrive\Desktop\Assignments python\ass_1.py"
--- Simple Student Attendance Tracker ---
This tool helps you record student check-in times.

How many students do you want to record? 1

--- Recording Data ---

Student 1:
Enter Name: Riju kumar saha
Enter Time (e.g., 09:00 AM): 9
Saved!

=====
Student Name      | Time
-----
Riju kumar saha   | 9
-----
Total Present: 1
=====

Do you want to save this to a file? (yes/no):
```

Github Link: <https://github.com/rijusaha8521/Assignment-Python-Riju>

[Attendance-Tracker](#)

