

# Python Project Presentation

| Name             | Matrix No    |
|------------------|--------------|
| Mohd Sheiry Rozy | 20DDT19F1056 |
| Mohd Abdul Hakim | 20DDT19F1050 |

# User Interface

The screenshot shows a software application window titled "Rwanda Automobile Workshop by HAKIM ROSIE". The interface is divided into several sections:

- Worker Data:** Contains input fields for "Worker ID", "Car ID", "Clock In", "Clock Out", and "Date" (set to 14/06/2021). Below these are "Add Shift" and "Update Data" buttons.
- FREE Worker:** A listbox containing ten employee IDs: EMPLOYEE\_1 through EMPLOYEE\_10.
- Simulator:** Includes buttons for "Next Day", "Morning Shift", "Afternoon Shift", and "Night Shift". Below these are "Generate Worker" and "Generate Car" buttons, and a "Date : 14/06/2021" label.
- Activity List - ( 14/06/2021 ) Works ( 0 ):** A dropdown menu showing the date 14/06/2021.
- Worker List:** A listbox showing the same ten employee IDs as the FREE Worker section.
- Car Status:** A listbox displaying five entries: "1 {CAR 1} INCOMPLETED None None 1", "2 {CAR 2} INCOMPLETED None None 1", "3 {CAR 3} INCOMPLETED None None 2", "4 {CAR 4} INCOMPLETED None None 2", and "5 {CAR 5} INCOMPLETED None None 1".
- Simulator Output:** A large empty text area for displaying simulation results.

- The user interface of the app is like above.It including multiple LabelFrame widget,listbox,button
- Entrybox and textbox

# Data Registration

Rwanda Automobile Workshop by HAKIM ROSIE

Worker Data

Worker ID

Car ID

Clock In

Clock Out

Date

FREE Worker

EMPLOYEE\_1  
EMPLOYEE\_2  
EMPLOYEE\_3  
EMPLOYEE\_4  
EMPLOYEE\_5  
EMPLOYEE\_6  
EMPLOYEE\_7  
EMPLOYEE\_8  
EMPLOYEE\_9  
EMPLOYEE\_10

Simulator

Date : 14/06/2021

Activity List - ( 14/06/2021 ) Works ( 0 )

14/06/2021

Worker List

1 EMPLOYEE\_1  
2 EMPLOYEE\_2  
3 EMPLOYEE\_3  
4 EMPLOYEE\_4  
5 EMPLOYEE\_5  
6 EMPLOYEE\_6  
7 EMPLOYEE\_7  
8 EMPLOYEE\_8  
9 EMPLOYEE\_9  
10 EMPLOYEE\_10

Car Status

1 {CAR 1} INCOMPLETED None None 1  
2 {CAR 2} INCOMPLETED None None 1  
3 {CAR 3} INCOMPLETED None None 2  
4 {CAR 4} INCOMPLETED None None 2  
5 {CAR 5} INCOMPLETED None None 1

Simulator Output

- From the image above, We Registered 10 employee and 5 car.
- The data can manually input from worker data or by using Simulator which automatically generate employee and car based on question requirement

# Monitoring Worker Process

Rwanda Automobile Workshop by HAKIM ROSIE

Worker Data

Worker ID

Car ID

Clock In

Clock Out

Date

Add Shift Update Data

FREE Worker

employee5  
employee6  
employee7  
employee8  
employee9  
employee10

Simulator

Next DayMorning ShiftAfternoon ShiftNight Shift

Generate WorkerGenerate Car

Date : 14/06/2021

Activity List - ( 14/06/2021 ) Works ( 4 )

14/06/2021

1 1 1 6:00 12:00 14/06/2021  
2 2 1 6:00 12:00 14/06/2021  
3 3 2 12:00 18:00 14/06/2021  
4 4 2 12:00 18:00 14/06/2021

Worker List

1 employee1  
2 employee2  
3 employee3  
4 employee4  
5 employee5  
6 employee6  
7 employee7  
8 employee8  
9 employee9  
10 employee10

Car Status

1 car1 BUSY 15/06/2021 17/06/2021 3  
2 car2 BUSY 16/06/2021 19/06/2021 4  
3 car3 INCOMPLETE 17/06/2021 19/06/2021 3  
4 car4 INCOMPLETE 19/06/2021 22/06/2021 4  
5 car5 INCOMPLETE 21/06/2021 24/06/2021 4

Simulator Output

car id : 2  
car id : 2  
car id : 2  
car id : 2  
car id : 1

# Choosing Date

Rwanda Automobile Workshop by HAKIM ROSIE

**Worker Data**

Worker ID

Car ID

Clock In

Clock Out

Date

**FREE Worker**

employee1  
employee2

**Simulator**

Date : 20/06/2021

**Activity List - ( 20/06/2021 ) Works ( 0 )**

19/06/2021 ▼

14/06/2021

15/06/2021

16/06/2021

17/06/2021

18/06/2021

19/06/2021

20/06/2021

**Worker List**

1 employee1

2 employee2

3 employee3

4 employee4

5 employee5

6 employee6

7 employee7

8 employee8

9 employee9

10 employee10

**Car Status**

1 car1 COMPLETED 15/06/2021 17/06/2021 3

2 car2 BUSY 16/06/2021 19/06/2021 4

3 car3 BUSY 17/06/2021 19/06/2021 3

4 car4 BUSY 19/06/2021 22/06/2021 4

5 car5 BUSY 21/06/2021 24/06/2021 4

**Simulator Output**

▶

▶

▶

▶

▶ car id : 5

▶

▶ car id : 5

▶

▶ car id : 5

▶

▶ car id : 5

# Final Result

Rwanda Automobile Workshop by HAKIM ROSIE

Worker Data

Worker ID

Car ID

Clock In

Clock Out

Date

20/06/2021

Add Shift

Update Data

FREE Worker

employee1  
employee2  
employee3  
employee4  
employee5  
employee6

Simulator

Next Day

Morning Shift

Afternoon Shift

Night Shift

Generate Worker

Generate Car

Date : 20/06/2021

Activity List - ( 20/06/2021 ) Works ( 5 )

20/06/2021

31 3 2 6:00 12:00 20/06/2021  
32 4 2 6:00 12:00 20/06/2021  
33 5 3 12:00 18:00 20/06/2021  
34 6 3 12:00 18:00 20/06/2021  
35 7 4 18:00 23:00 20/06/2021

Worker List

1 employee1  
2 employee2  
3 employee3  
4 employee4  
5 employee5  
6 employee6  
7 employee7  
8 employee8  
9 employee9  
10 employee10

Car Status

1 car1 COMPLETED 15/06/2021 17/06/2021 3  
2 car2 COMPLETED 16/06/2021 19/06/2021 4  
3 car3 COMPLETED 17/06/2021 19/06/2021 3  
4 car4 BUSY 19/06/2021 22/06/2021 4  
5 car5 BUSY 21/06/2021 24/06/2021 4

Simulator Output

car id : 4

CAR TOTAL DURATION : 36 HRS EMPLOYESS FIX DURATION : 45 HRS  
EMPLOYEES IS FREE NOW

car id : 3

CAR TOTAL DURATION : 36 HRS EMPLOYESS FIX DURATION : 39 HRS  
EMPLOYEES IS FREE NOW

car id : 3

car id : 3