

## UNIVERSITI TEKNOLOGI MARA (UITM) KEDAH, KAMPUS SUNGAI PETANI

# SCHOOL OF INFORMATION SCIENCE COLLEGE OF COMPUTING, INFORMATICS AND MATHEMATICS DIPLOMA IN INFORMATICS LIBRARY [CDIM144]

IML 208: coding

#### PREPARED BY:

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PREPARED FOR:

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SUBMISSION DATE:

SOFTCOPY: 18 DEC (WED)

As a student of Universiti Teknologi MARA (UiTM), it is my responsibility to act in accordance

with UiTM's academic assessment and evaluation policy. I hereby pledge to act and uphold

academic integrity and pursue scholarly activities in UiTM in an honest and responsible

manner. I will not engage in or tolerate acts of academic dishonesty, academic misconduct, or

academic fraud including but not limited to:

a. Cheating: Using or attempting to use any unauthorized device, assistance, sources,

practice or materials while completing academic assessments. This includes but is not limited

to copying from another, allowing others to copy, unauthorized collaboration on an assignment

or open book tests, or engaging in any act or conduct that can be construed as cheating.

b. Plagiarism: Using or attempting to use the work of others (ideas, design, words, art,

music, etc.) without acknowledging the source; using or purchasing materials prepared by

another person or agency or engaging in other behaviour that a reasonable person would

consider as plagiarism.

c. Fabrication: Falsifying data, information, or citations in any academic assessment and

evaluation. d. Deception: Providing false information with the intent to deceive an instructor

concerning any academic assessment and evaluation.

e. Furnishing false information: Providing false information or false representation to

any UiTM official, instructor, or office. With this pledge, I am fully aware that I am obliged to

conduct myself with utmost honesty and integrity. I fully understand that disciplinary action can

be taken against me if I, in any manner, violate this pledge.

Name: FATHI MUHAMMAD BIN RUSLANIZAM

Matric Number: 2023659036

Course Code: CDIM144

Programme Code: IML208

Faculty / Campus: SCHOOL OF INFORMATION SCIENCE COLLEGE OF COMPUTING,

INFORMATICS AND MATHEMATICS

#### **ACKNOWLEDGEMENT**

#### Assalamualaikum w.b.t

Alhamdulillah, I extend heartfelt gratitude to my parents for their unwavering support and encouragement in my educational journey. Thanks to the encouragement and love from my parents who were able to give me to complete this assignment without them I could not have done it. Besides, I also want to say a thousand thanks to Sir Firdaus for teaching about this subject. His attitude and care have helped us to complete this assignment by helping directly through face to face and WhatsApp. Finally, I would also like to extend our thanks to Universiti Teknologi Mara Systems especially in wireless connection and tuning the technical equipment for me to complete this assignment without any worries.

Project Name: portable toilet rental

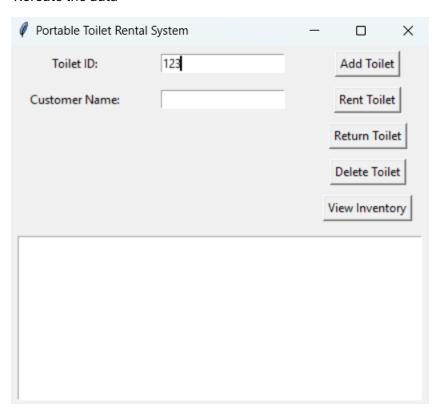
File Name: IML208 assignment.py

Prompt Data:

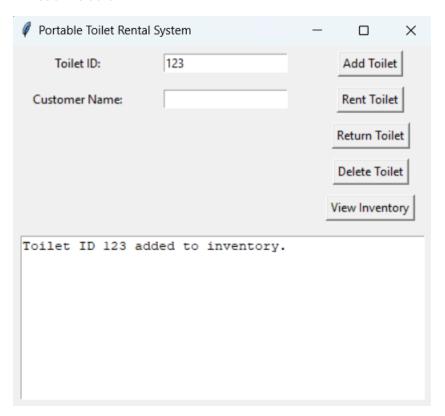
- i) Add toilet
- ii) Add toilet
- iii) Return toilet
- iv) Delete toilet
- v) View inventory

#### Function:

#### 1.create the data

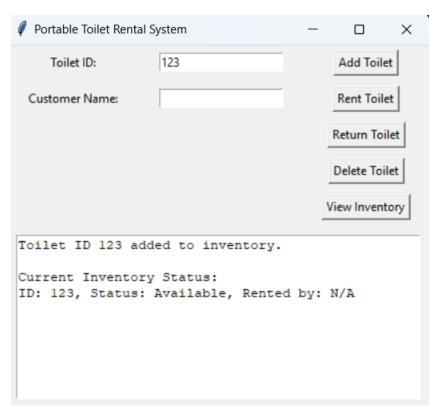


#### 2. Read the data

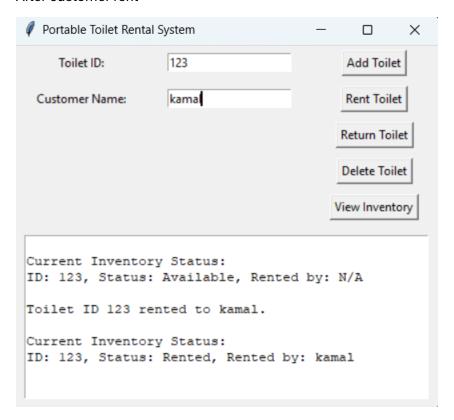


### 3. Update the data

Before customer rent the toilet

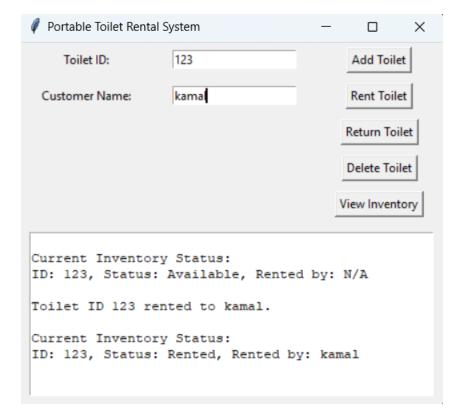


#### After customer rent

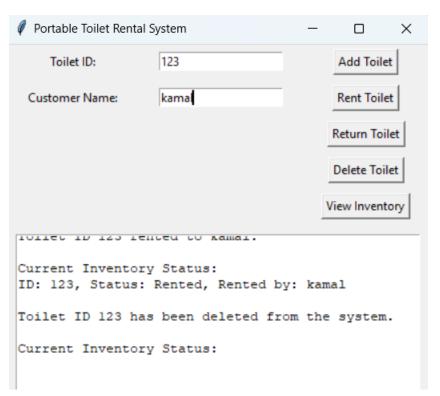


#### 4. Delete the data

Before delete the data



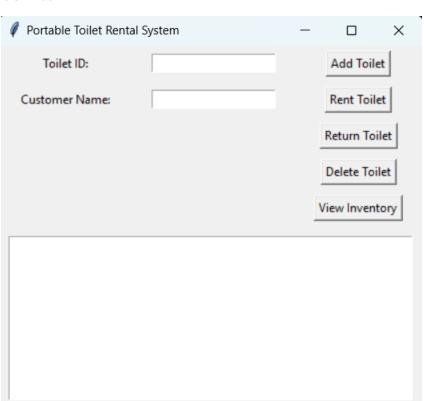
#### After delete the data



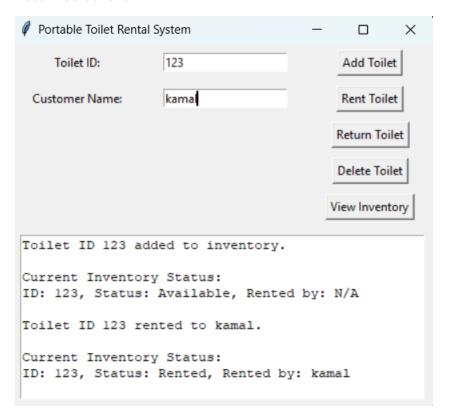
#### Conditional Statement: Yes

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#### GUI: Yes



#### Result: Screenshot



#### Strengths:

Comprehensive functionality:

#### 1. Clear Separation of Concerns

- The program is well-structured, with the logic and the user interface separated:
  - PortableToiletRental class: Manages the core business logic (inventory and rental operations).
  - PortableToiletRentalApp class: Handles the GUI and connects the user interface to the backend logic.
- This modularity improves code readability, maintainability, and scalability.

#### 2. User-Friendly GUI

- The tkinter-based interface is simple and easy to use:
  - o Text fields for input make interactions straightforward.
  - Buttons for specific actions ensure clarity of purpose.
  - o Output messages in the text area provide immediate feedback to the user.