**Page Replacement Algorithm Simulator with User-Friendly Interface**

* This Python script simulates different page replacement algorithms: FIFO, Optimal, LRU, and Clock. It takes a reference string and a frame size as input and outputs page faults, page hits, hit ratio, and visualizes the page sequence for each algorithm.

**Prerequisites**

* Python 3.x installed on your system.
* Matplotlib library for plotting.

**Installation**

1. **Clone the repository:**

<https://github.com/Bhumireddy2001/Page_Replacement_Algorithm.git>

1. **Navigate to the project directory:**

cd desktop

cd Page\_Replacement\_Algorithm

1. **Install Dependencies**

Pip install matplotlib

**Usage**

1. **Run the script:**

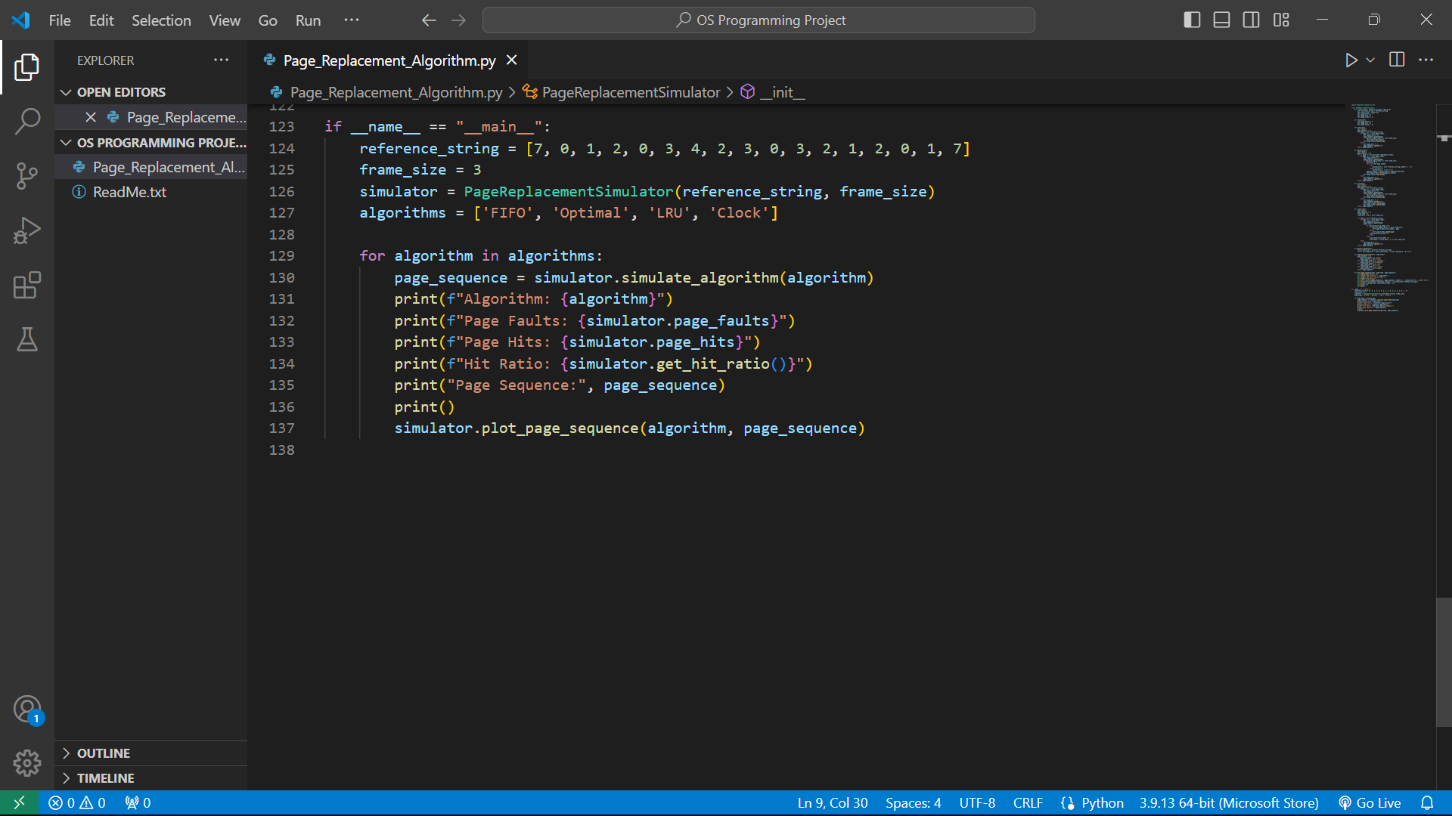
python Page\_Replacement\_Algorithm

1. **View the output:**

* The script will prompt you with the results for each algortithm.
* It will also display a plot showing the page sequence for each algorithm.

1. **Modify input parameters**

* You can modify the ‘reference\_string’ and ‘frame\_size’ variables in the ‘\_\_main\_\_’ block of the script to test different scenarios.

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