

THE POLYTECHNIC, IBADAN.

DEPARTMENT OF COMPUTER STUDIES

COURSE TITLE: PYTHON PROGRAMMING LANGUAGE (COM315)

LEVEL: HND1

LECTURER IN CHARGE: MRS. ONI

QUESTION: A PYTHON PROGRAM TO DEVELOP A UNIFORM RESOURCE LOCATOR
(URL)

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PRACTICAL PROCEDURES

AIM OF PRACTICAL

A python program to develop a Uniform Resource Locator (URL)

PERFORMANCE OBJECTIVE

- I. Effectively generate short URLs for long links
- II. Minimize the time it takes to redirect users to the original URL
- III. Allow users to create custom URLs quickly
- IV. Protect against abuse, spam, and unauthorized access
- V. Ensure fast and responsive URL redirection

DESCRIPTION OF THE PROGRAM DEVELOPED

- I. Installation of python3 compiler
- II. Installation of Pyshortener module which is responsible for URL shortening
- III. Installation of Pyperclip which makes the link clickable
- IV. Installation of PyCharm IDE (text editor)

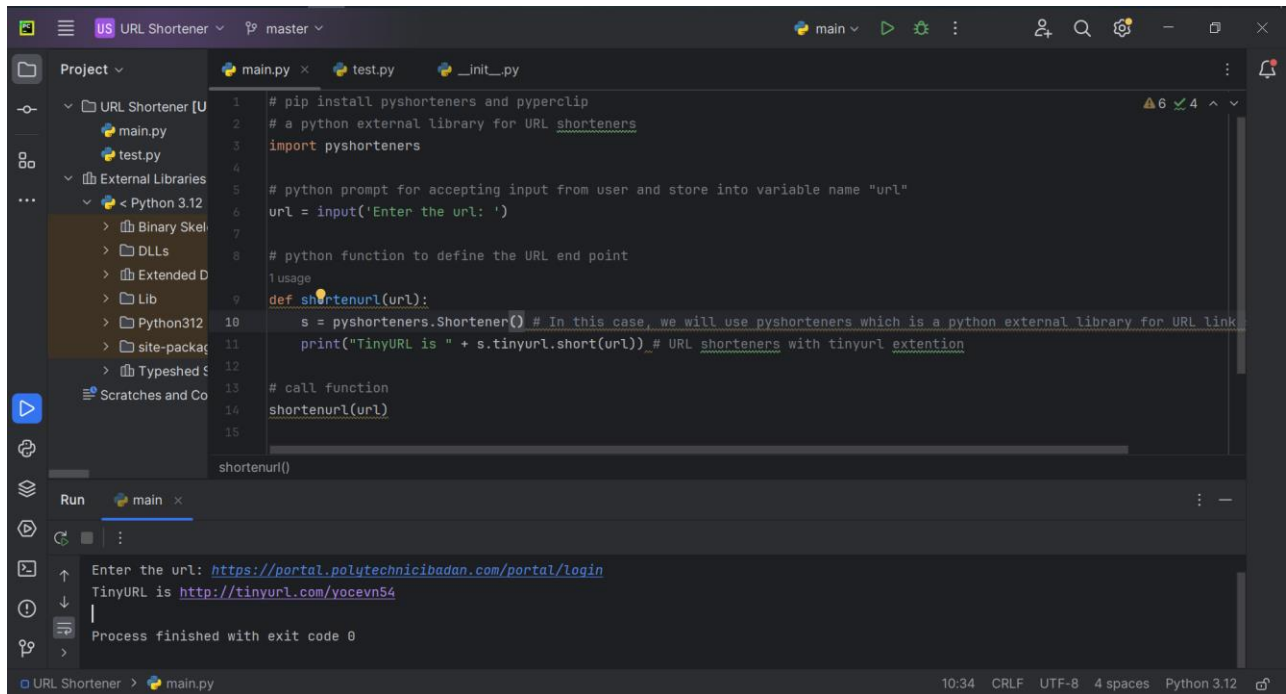
EXPECTED RESULT

The generated link is expected to redirect the you to the original link provided by the user

GENERAL OBSERVATION

Generating a short URL can make links more user friendly, easier to share, and visually cleaner. Short URLs are especially useful in character-limited spaces like media posts an can enhance click-through rate. In conclusion, they provide a level of anonymity, as users can not discern the destination from the URL alone.

CODE



```
1 # pip install pyshorteners and pyperclip
2 # a python external library for URL shorteners
3 import pyshorteners
4
5 # python prompt for accepting input from user and store into variable name "url"
6 url = input('Enter the url: ')
7
8 # python function to define the URL end point
9 def shortenurl(url):
10     s = pyshorteners.Shortener() # In this case, we will use pyshorteners which is a python external library for URL link
11     print("TinyURL is " + s.tinyurl.short(url)) # URL shorteners with tinyurl extention
12
13 # call function
14 shortenurl(url)
15
16 shortenurl()
```

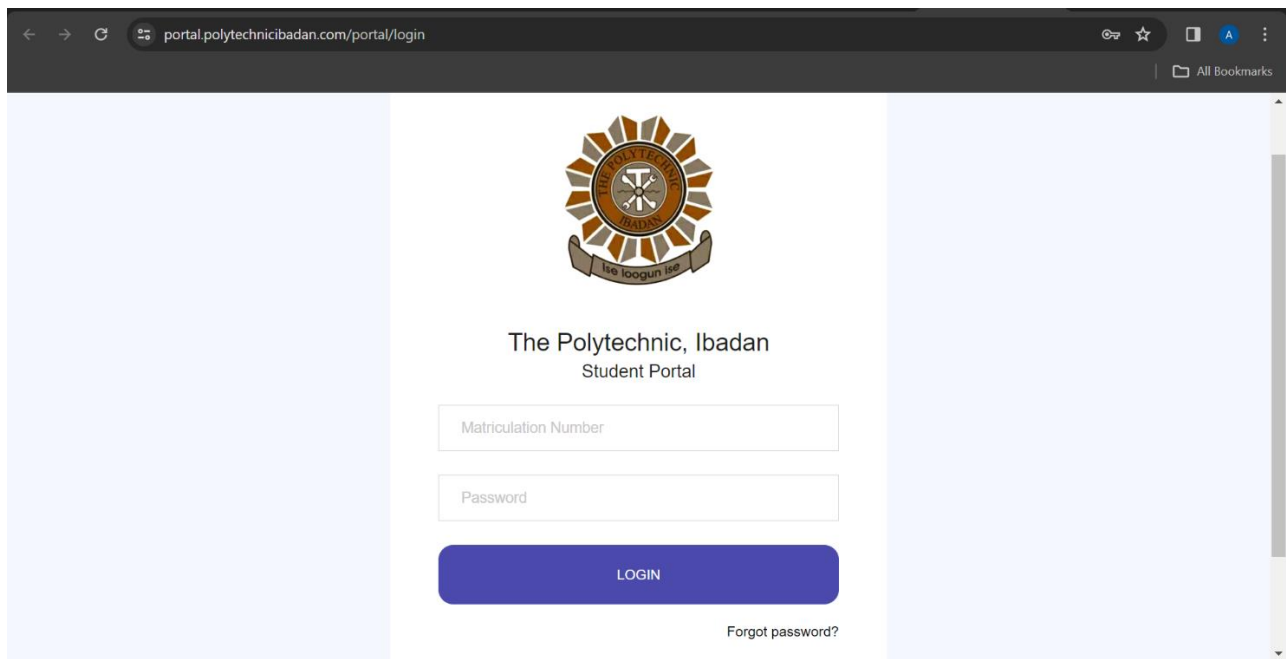
Run main

Enter the url: <https://portal.polytechnicibadan.com/portal/login>
TinyURL is <http://tinyurl.com/yocevn54>
Process finished with exit code 0

Interted link: <https://portal.polytechnicibadan.com/portal/login>


Shortened link: <http://tinyurl.com/yocevn54>

OUTPUT



The screenshot displays the login interface for The Polytechnic, Ibadan Student Portal. The browser's address bar shows the URL `portal.polytechnicibadan.com/portal/login`. The page features the institution's logo at the top center, which includes a shield with a book and a torch, surrounded by the text "THE POLYTECHNIC IBADAN" and a banner below with the motto "Ike loogun ike". Below the logo, the text "The Polytechnic, Ibadan" and "Student Portal" are displayed. The login form consists of two input fields: "Matriculation Number" and "Password". A blue "LOGIN" button is positioned below these fields. A link labeled "Forgot password?" is located at the bottom right of the form area.

portal.polytechnicibadan.com/portal/login



The Polytechnic, Ibadan
Student Portal

Matriculation Number

Password

LOGIN

[Forgot password?](#)