

Link (URL) shortener python project

Hello everybody

welcome back to this python project

In this python project we write a python program which helps us to **shorten the long links** that means we create a link shortener program.

Ok, this is one of the basic **real world python projects** you need to do as a beginner python programmer.

It is easy and simple python project.

So,

Now we can start this python project by opening PyCharm python IDE.

I use PyCharm. If you use another python IDE you can use your favorite IDE.

For me I use PyCharm.

So, now I open and **create a new python file** in PyCharm.

Now I am in PyCharm home page.

And I create a new file

For that

I click this at the top and select new

And I click this python file.

After that it asks me to give the file name

For me I **give the file name**

URL shortener

I give this name for this python file

For you, you can give any name you want to give

Ok, after that when I hit enter it creates a new blank python file.

So, now we can start this python project by **importing some important python modules**.

Those python modules can help us to shorten our links

So,

In this python project I use **pyshorteners** python module. I use this python module to create a short link Or to convert the long links to short links.

So, to use this pyshorteners link you need first install it.

Because this pyshorteners python module is not built-in module.

For that first you need to install

Ok, **to install** you can use PyCharm python ide itself

At the bottom of PyCharm there is a terminal section then you click this terminal

After that you need to write

Pip install pyshorteners

After that you hit enter, it starts to download and install to your python project.

Ok, after you install this python module

You can use by importing to your project

For that

I write

Import pyshorteners

Like this

```
import pyshorteners
```

And

After I import this python module

The next is creating an object by using shortener class inside this python module.

For that I call the name

Shortener = Pyshorteners.shortener()

```
shortener = pyshorteners.Shortener()
```

After that

I write a program which asks the user to enter the long link to convert to short link.

For that I use **input()**

Python function

This input function is used to ask the prompt

For that I use input() function

Ok,

I write

```
Long_link = input()
```

And side this I write inter the long link

Inside a duble quote

Like this

```
long_link = input(" Your link: ")
```

This code asks the user to inter the long code and save in the variable long link.

After that

I write the code

```
Short link = shortener
```

I use the object I created above

```
Shortener.tinyurl.short()
```

And inside this parenthesis I pass

The **long link** variable I created before

So,

The short link = Shortener.tinyurl.short(long_link)

And pass the long link

Like this.

```
short_link = shortener.tinyurl.short(long_link)
```

Ok, now we finish this program to create the short link

The next is printing this short link

For that, I use the print function

so,

I write

Print(Short_link)

Like this

```
print(short_link)
```

And this is all about how to convert link links to short

So, the next is

Run this python program and see how this program works.

When you **run it**

As you see it asks me

To enter the long link

For that I give the link for example I give this youtube video link, as you see it is a long link,

And when I copy this link and past it

It gives a short link

Like this

This is a short link.

And when I copy this short link and past in a browser

It opens the same YouTube video to the long link I copy before.

So, this python project is all about converting the long link to short, and the **long and short links open the same file.**

By using this python program, you can shorten any long link and it works without any error.

For more understanding you can run different times and test with different links.

O, this is all about this python project

I think you get some concepts about how to convert

Or how to write a python link shortener program.

Thanks for watching

I will see you in the next python project.

Thanks again!!

!!! All The Code Looks Like This!!!

```
# Importing Python Modules
import pyshorteners

shortener = pyshorteners.Shortener()
long_link = input(" Your link: ")
short_link = shortener.tinyurl.short(long_link)
print(short_link)
```

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