

Get Phone Number Details by using Python programing language

Hello everybody welcome back to this python project

In this python program we write a python code which helps us to give any phone number and get the detailed about that phone number.

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

So, at the end of this video you can write a python program which helps you to see the phone number details.

Ok, now we can start this python project by selecting python IDE.

For this project I use PyCharm Python IDE.

And also, I recommend you to use PyCharm, however if you want to use another python IDE you can use.

Ok, now I open PyCharm and create a new python file.

For that I click this at the top and

click new and I select python file.

After that it asks me to give the file name,

So, for this python project I give the name

Get Phone Number Details

For you, you can give any name you want

For me I write the name

Get phone number details.

Ok, after that when i click enter it creates a new blank python page.

Like this

So, now we can start this python project by importing one important python module which helps us to get phone number details.

Which is called **phonenumbers**

This **phonenumbers python module** helps us to create this python project.

So, now I start by importing this phonenumbers

Now I write

Import phonenumbers as ph

I import like this

```
import phonenumbers as ph
```

if you are new to this python module first you need to install it, by using

pip install phonenumbers

and when the installation finishes you can import it

after I import it, next I write a program to ask the user to enter the phone number to get details about that number

for that I write

number = input()

and inside this input function I write

“Phone Number” like this

This number variable then saves a phone number you want to get details.

So

```
number = input("Phone Number: ")
```

ok, after this I want to get first the country of this phone number

for that I create a variable country

so, country = and

first

now at the top I import geocoder function from the phonenumbers

so,

from phonenumbers import geocoder

like this

```
from phonenumbers import geocoder
```

first you need to import it.

After that I come to this and

Country = geocoder.Description_for_Number()

And I pass number variable I create above and language, for the language I write “en” inside a double quote, this “en” means english.

So this

```
country = geocoder.description_for_number(number, "en")
```

code helps us to get the phone number country.

And to see this result, now I print the country and see how it works

So, I write

Print() and I pass the variable country inside this print function.

Like this

```
print(country)
```

ok, now I run this python code and see what is happened.

Ok, as you see when I run this

It asks me to enter phone number and I write phone number.

After that

After I write the full phone number it says

Attribute error:

'str' object has no attribute 'country_code'

As you see this input function

Or when we use input function in python it accepts a data as string,

So, when I write phone number it accepts as string data type in python.

For that reason, now I want to change this number as country_code, by using phonenumbers python module I imported before.

So, now I came to this number variable and create other number variable by using the previous number variable.

For that

```
Number = ph.parse(Nuber)
```

I use parse() function from the phonenumbers python module.

This ph

Is the abbreviation I use to import the phonenumbers python module.

So

```
number = ph.parse(number)
```

like this

ok, now I will run this code again to see the country of the phone number.

When I run this, As you see

It asks me again to enter the phone number

So, I write the phone number like this

And when I click enter

As you see it says

Ethiopia

It works perfectly

I am from Ethiopia and for you, you can try by importing your phone number.

Ok, now I get the phone number country without any error, the next is I want to get the information about the sim card provider of the phone number.

For that I can do this and I import other class from the phonenumbers python module.

For that I write

From phonenumbers import carrier

Like this

After I import this function from phonenumbers python module, I create another variable called sim card provider

So,

```
Sim_card_provider = carrier.name_for_number()
```

And inside this parenthesis I pass the number variable and the language English

And this code

```
sim_card_provider = carrier.name_for_number(number, "en")
```

ok, this code helps us to get the sim card provider of the phone number

and to see the results

I print it,

For that I write

Print() and inside this print function I pass
sim_card_provider variable

Like this

```
print(sim_card_Provider)
```

now I will run this again and see how it works

when i run this

it asks a phone number

so I write the phone number

after that

as you see

it says

Ethiopia the country for this phone number and

Ethio telecom for the sim card provider

It works perfectly.

And now I cam back to this code and add another
information for this phone number

Like the time zone of this phone number

For that I import the time zone function in the
phonenumbers python module

So, I write

From phonenumbers import timezone

Like this

```
from phonenumbers import timezone
```

after that, after I import this

next I create a variable

```
time_zone = timezone.time_zones_for_number()
```

and I pass number

like this

```
time_zone = timezone.time_zones_for_number(number)
```

after this

now I write

print() and pass this time zone variable

```
print(time_zone)
```

and now I will run this

and it asks me phone number so, I write the phone number

and when I hit enter

as you see it gives the time zone of this phone number

it says

('Africa/Addis_Ababa',)

Addis Ababa is the capital city of Ethiopia

So, this python code works perfectly.

So, this the first one Ethiopia the country of the phone number

The next Ethio Telecom is the sim card provider

And this ('Africa/Addis_Ababa',) is the time zone of this phone number.

So, for more readability I add a description from this print function

So, for the first I add string country inside a double quote by separation this country variable

Like this

```
print("Country: ",country)
```

and also, for the sim card provider

I add this description

“Sim Card Provider”

Inside the double quote by separation a comma

Like this

```
print("Sim Card Provider: ",sim_card_Provider)
```

and like this I also add to the time zone

for that

I write

“time Zone”

like this

```
print("Time Zone",time_zone)
```

and now when I run this program a gain

this python program asks me to inter the phone number, so now I will write the phone number and after that

it gives the detailed information about this phone number

like this

Phone Number: +251923456789

Country: Ethiopia

Sim Card Provider: Ethio Telecom

Time Zone: ('Africa/Addis_Ababa',)

I use this random phone number you can use or you can enter any phone number you want to get more information's about the number by using this python program.

Ok, this python project is all about writing a python program to get phone number information's or details.

So, this is all about this video

I think you get some concepts in this python project

Thanks for your time

I will see you in the next python project

Thanks again.

!!! The Full Code !!!

```
# phonenumbers
import phonenumbers as ph
from phonenumbers import geocoder
from phonenumbers import carrier
from phonenumbers import timezone

number = input(" Phone Number: ")
number = ph.parse(number)
country = geocoder.description_for_number(number, "en")
sim_card_provider = carrier.name_for_number(number, "en")
time_zone = timezone.time_zones_for_number(number)

print("Country: ", country)
print("Sim_card provider: ", sim_card_provider)
print("Time Zone: ", time_zone)
```

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