

PROBLEM
DISCOVER THE
ACTUAL TIME OF
ANYWHERE!

Our code:



```
import requests
def main():
    API_KEY = "12MTRNXMSHQ6"
    while True:
        try:
            print("-"*55)
            answer = input(""" Type 1 to see the timezones list,
when you're ready, type 2 to type the desired timezone:
""")
            print("-"*55)
#---/-
            if answer == "2":
                timezone = input("""Type the timezone you want to see the hour. Example: 'America/Mexico_City'
"""
)
                info_of_timezones = requests.get(f"http://api.timezonedb.com/v2.1/get-time-zone?key={API_KEY}&format=json&by=zone&zone={timezone}").json()
                if timezone == info_of_timezones["zoneName"]:
                    print(f"the timezone of {timezone} is: {info_of_timezones["formatted"][:11]}")
                    break
                else:
                    print("The timezone does not exist or was written incorrectly.")
#---/-
            elif answer == "1":
                print(""" ---CONTINENTS---
Asia, America, Africa, Pacific, Europe
Antarctica, Australia, Atlantic, Indian, Arctic""")
                continent = input("Please, type the desired continent: ")
                info_of_continents = requests.get(f"http://api.timezonedb.com/v2.1/list-time-zone?key={API_KEY}&format=json&zoneName={continent}").json()
                for all_zones in info_of_continents["zones"]:
                    zone = all_zones["zoneName"][:len(continent)]
                    if zone == continent:
                        print(all_zones["zoneName"])
                    else:
                        print("Invalid input.")
#---/-
            except (KeyError, TypeError, UnboundLocalError, ValueError):
                print("An Unexpected Error Happened")
main()
```

How does it work?

UNDERSTANDING THE CODE

The code uses the API of a website that contains the timezones of everywhere in real-time.



```
import requests
def main():
    API_KEY = "12MTRNXMSHQ6"
    while True:
        try:
            print("-"*55)
            answer = input("""      Type 1 to see the timezones list,
when you're ready, type 2 to type the desired timezone:
""")
            print("-"*55)
#---#
            if answer == "2":
                timezone = input("""Type the timezone you want to see the hour. Example: 'America/Mexico_City'
""")
                info_of_timezones = requests.get(f"http://api.timezonedb.com/v2.1/get-time-zone?key={API_KEY}&format=json&by=zone&zone={timezone}").json()
                if timezone == info_of_timezones["zoneName"]:
                    print(f"the timezone of {timezone} is: {info_of_timezones['formatted'][11:19]}")
                    break
                else:
                    print("The timezone does not exist or was written incorrectly.")
#---#
            elif answer == "1":
                print("")           ---CONTINENTS---
                Asia, America, Africa, Pacific, Europe
                Antarctica, Australia, Atlantic, Indian, Arctic"""
                continent = input("Please, type the desired continent: ")
                info_of_continents = requests.get(f"http://api.timezonedb.com/v2.1/list-time-zone?key={API_KEY}&format=json&zoneName=*{continent}*").json()
                for all_zones in info_of_continents["zones"]:
                    zone = all_zones["zoneName"][:len(continent)]
                    if zone == continent:
                        print(all_zones["zoneName"])
                    else:
                        print("Invalid input.")
#---#
        except (KeyError, TypeError, UnboundLocalError, ValueError):
            print("An Unexpected Error Happened")
main()
```

How does it work?

[Home](#)[About](#)[Content](#)[Others](#)

START



```
import requests
def main():
    API_KEY = "12MTRN0XMSHQ6"
    while True:
        try:
            print("-"*55)
            answer = input("Type 1 to see the timezones list,
when you're ready, type 2 to type the desired timezone:
")
            print("-"*55)
```

OUTPUT EXAMPLE

```
Type 1 to see the timezones list,
when you're ready, type 2 to type the desired timezone:
```

ERROR OUTPUT

```
Type 1 to see the timezones list,
when you're ready, type 2 to type the desired timezone:
3
```

```
Invalid input.
```

How does it work?

[Home](#)[About](#)[Content](#)[Others](#)

ANSWER = 2

```
→ if answer == "2":  
    timezone = input("Type the timezone you want to see the hour. Example: 'America/Mexico_City'  
                     "")  
    info_of_timezones = requests.get(f"http://api.timezonedb.com/v2.1/get-time-zone?key={API_KEY}&format=json&by=zone&zone={timezone}").json()  
    if timezone == info_of_timezones["zoneName"]:  
        print(f"the timezone of {timezone} is: {info_of_timezones['formatted'][11:19]}")  
        break  
    else:  
        print("The timezone does not exist or was written incorrectly.")
```

OUTPUT EXAMPLE

Type 1 to see the timezones list,
when you're ready, type 2 to type the desired timezone:

2

Type the timezone you want to see the hour. Example: 'America/Mexico_City'
Asia/Seoul
the timezone of Asia/Seoul is: 08:32:17

ERROR OUTPUT

Type 1 to see the timezones list,
when you're ready, type 2 to type the desired timezone:
2

Type the timezone you want to see the hour. Example: 'America/Mexico_City'
Peru-York

The timezone does not exist or was written incorrectly.

How does it work?

[Home](#)[About](#)[**Content**](#)[Others](#)

ANSWER = 1

```
→ elif answer == "1":  
    print("")  
    ---CONTINENTS---  
    Asia, America, Africa, Pacific, Europe  
    Antarctica, Australia, Atlantic, Indian, Arctic""")  
    continent = input("Please, type the desired continent: ")  
    info_of_continents = requests.get(f"http://api.timezonedb.com/v2.1/list-time-zone?key={API_KEY}&format=json&zoneName=*{continent}*").json()  
    for all_zones in info_of_continents["zones"]:  
        zone = all_zones["zoneName"][:len(continent)]  
        if zone == continent:  
            print(all_zones["zoneName"])
```

OUTPUT EXAMPLE

Type 1 to see the timezones list,
when you're ready, type 2 to type the desired timezone:

1

---CONTINENTS---
Asia, America, Africa, Pacific, Europe
Antarctica, Australia, Atlantic, Indian, Arctic
Please, type the desired continent: Arctic
Arctic/Langyearbyen

ERROR

If the user types anything that isn't a continent the code will just start over :p

How does it work?

[Home](#)[About](#)[**Content**](#)[Others](#)

END

```
except (KeyError, TypeError, UnboundLocalError, ValueError):
    print("An Unexpected Error Happened")
main()
```

Complete output example:



Type 1 to see the timezones list,
when you're ready, type 2 to type the desired timezone:
3

Invalid input.

Type 1 to see the timezones list,
when you're ready, type 2 to type the desired timezone:
1

--CONTINENTS--
Asia, America, Africa, Pacific, Europe
Antarctica, Australia, Atlantic, Indian, Arctic
Please, type the desired continent: Arctic
Arctic/Longyearbyen

Type 1 to see the timezones list,
when you're ready, type 2 to type the desired timezone:
2

Type the timezone you want to see the hour. Example: 'America/Mexico_City'
Peru-York
The timezone does not exist or was written incorrectly.

Type 1 to see the timezones list,
when you're ready, type 2 to type the desired timezone:
2

Type the timezone you want to see the hour. Example: 'America/Mexico_City'
Asia/Seoul
the timezone of Asia/Seoul is: 08:32:17



THANK YOU