

# IMPORTING OF THE REQUIRED LIBRARIES

```
1  import phonenumbers
2  from phonenumbers import carrier, geocoder, timezone
3
```

## DEFINING FUNCTION

```
✓ def lookup_number(phone_number):
✓     try:

        parsed_number = phonenumbers.parse(phone_number, None)

        if not phonenumbers.is_valid_number(parsed_number):
            print(f"Error: {phone_number} is not a valid number.")
            return

        service_provider = carrier.name_for_number(parsed_number, "en")

        location = geocoder.description_for_number(parsed_number, "en")

        time_zones = timezone.time_zones_for_number(parsed_number)
```

## GETTING THE OUTPUTS

```
21
22     print("-----")
23     print(f"Results for: {phone_number}")
24     print("-----")
25     print(f"Location:    {location}")
26     print(f"Carrier:      {service_provider}")
27     print(f"Timezones:    {'', '.join(time_zones)}")
28     print("-----")
29
30     except phonenumbers.NumberParseException:
31         print("Error: Please include the country code (e.g., +1 for US, +44 for UK).")
32
```

# THE LOOP FOR THE CONTINUOUS LOOKING OF THE REQUIRED OUTPUT

```
32
33 if __name__ == "__main__":
34     print("Simple Caller ID Tool")
35     print("Type 'exit' to quit.")
36
37     while True:
38         user_input = input("\nEnter phone number (with +country code): ")
39
40         if user_input.lower() == 'exit':
41             break
42
43         lookup_number(user_input)
44
```

## OUTPUT

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS
/usr/bin/python3 "/Users/abhijaysinghrathod/Documents/vit/import_phonenumbers.py"
○ abhijaysinghrathod@ABHIJAYS-MacBook-Air-2 ~ % /usr/bin/python3 "/Users/abhijaysinghrathod/Documents/vit/import_phonenumbers.py"
Simple Caller ID Tool
Type 'exit' to quit.

Enter phone number (with +country code): +1 650-253-0000
-----
Results for: +1 650-253-0000
-----
Location:    Mountain View, CA
Carrier:
Timezones:  America/Los_Angeles
-----

Enter phone number (with +country code): █
```