

# 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     print("-----")  
22     print(f"Results for: {phone_number}")  
23     print("-----")  
24     print(f"Location: {location}")  
25     print(f"Carrier: {service_provider}")  
26     print(f"Timezones: {', '.join(time_zones)}")  
27     print("-----")  
28  
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 CONTINOUS 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): █
```