1. 6330513021 Sakkraphop Jetiyanon

2. REST API curl command or URL address to enter at the web browser
Ans=
curl
"https://www.alphavantage.co/query?function=TIME_SERIES_INTRADAY&symbol=IBM&interval=60min&apikey=0WLE96LAO39LS09T"
You can get the key from this website:
https://www.alphavantage.co/support/#api-key.
then you will get the API key by do following the picture

🔗 Claim your Free API Key

Claim your free key for the Alpha Vantage Stock API © with lifetime access. We highly recommend that you use a legitimate email address - this is the primary way we will contact you for feature announcements and troubleshooting purposes (e.g. if you lose your API key).

Which of the following best describes you?

Investor
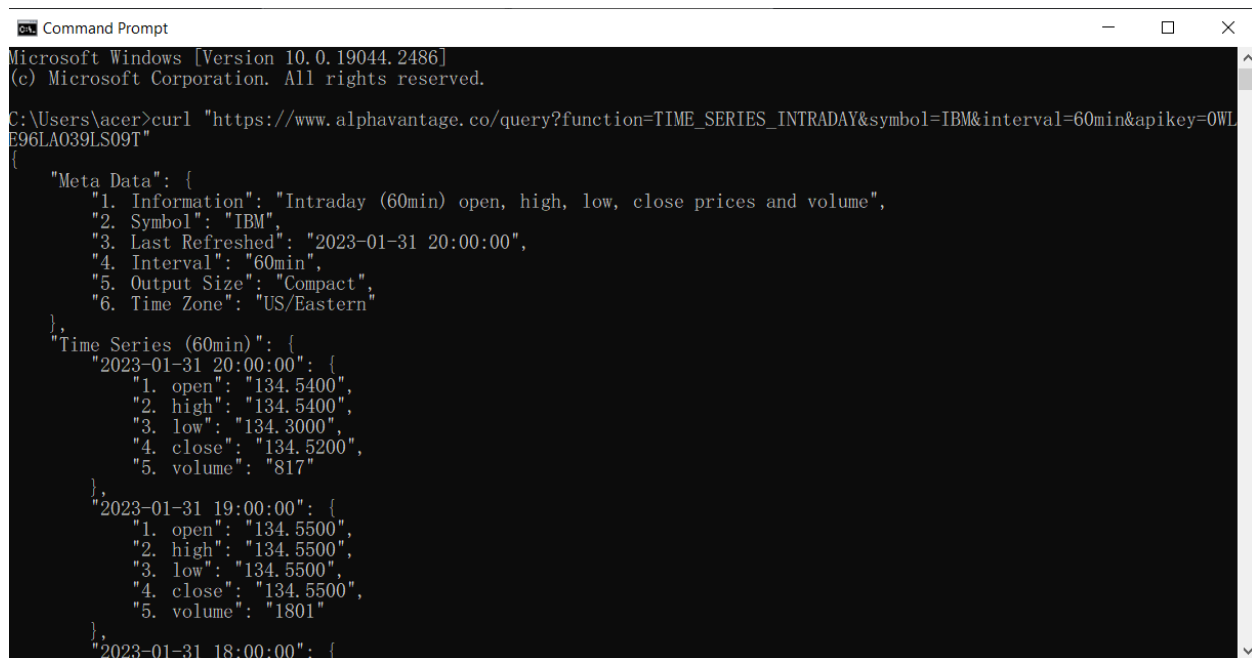
Organization (e.g. company, university, etc.):

Email:

GET FREE API KEY

Welcome to Alpha Vantage! Your API key is: 0WLE96LAO39LS09T. Please record this API key at a safe place for future data access.

3. Example output data that you have obtained

```
{
    "Meta Data": {
        "1. Information": "Intraday (60min) open, high, low, close prices and volume",
        "2. Symbol": "IBM",
        "3. Last Refreshed": "2023-01-31 20:00:00",
        "4. Interval": "60min",
        "5. Output Size": "Compact",
        "6. Time Zone": "US/Eastern"
    },
    "Time Series (60min)": {
        "2023-01-31 20:00:00": {
            "1. open": "134.5400",
            "2. high": "134.5400",
            "3. low": "134.3000",
            "4. close": "134.5200",
            "5. volume": "817"
        },
        "2023-01-31 19:00:00": {
            "1. open": "134.5500",
            "2. high": "134.5500",
            "3. low": "134.5500",
            "4. close": "134.5500",
            "5. volume": "1801"
        },
        "2023-01-31 18:00:00": {
            "1. open": "134.4000",
            "2. high": "134.7300",
            "3. low": "134.4000",
            "4. close": "134.7300",
            "5. volume": "1439"
        },
        "2023-01-31 17:00:00": {
            "1. open": "134.7300",
            "2. high": "135.0000",
            "3. low": "134.2570",
            "4. close": "134.4000",
            "5. volume": "828684"
        },
        "2023-01-31 16:00:00": {
            "1. open": "134.4241",
            "2. high": "134.8000",
            "3. low": "133.7800",
            "4. close": "134.7600",
            "5. volume": "1505083"
        },
```

Example output data from URL address.

Example output data from command prompt

4. **One paragraph describing what data you have obtained**
   Ans: The output of This API returns intraday time series of
   the equity specified, covering extended trading hours. The
   intraday data is derived from the Securities Information
   Processor (SIP) market-aggregated data.

5. **URL linking to the REST API reference document for the
   public data repository you have obtained**

   Ans: https://www.alphavantage.co/documentation