ICA-1: Creating a Twitter developer account and collecting data from Twitter using Twitter API.

In this document, I have outlined my experience of creating the Twitter developer account and collecting data from Twitter using Twitter API.

Creating a Twitter Developer Account:

- **Create a Twitter Developer Account:**
  Go to the Twitter Developer Platform website, click "Apply," and follow the prompts to create an account.

- **Obtain API keys and access tokens:**
  After your account has been approved, log in to the Twitter Developer Dashboard and create a project. Create API keys and access tokens for your project.

Collecting Data from Twitter using the API:

- **Install the Twitter API library:**
  Use the Python library tweepy to interact with the Twitter API. You can install it using `pip install tweepy`.

- **Authenticate your API keys:**
  Use your API keys and access tokens to authenticate your access to the Twitter API.

- **Send API requests:**
  Use the tweepy library to send API requests to the desired endpoint and retrieve the data you want to collect.
  We can get data like tweets, user profiles, and trends. You can also use filters to limit the data you retrieve based on specific criteria. Here, we are only fetching 10 tweets with the "covid" filter as per requirement.

- **Parse the response:**
  We parse the response from the API to extract the desired data. You can use Python libraries like json to parse the response.

- **Store the data:**
  We store the collected data in a format of our choice, such as a CSV file or a database.