**Task – 1: Install Auto-GPT on your local computer.**

Follow these steps to download, set up, and run Auto-GPT version 0.3.0:

Step 1: Access the GitHub Repository

1. Navigate to the Auto-GPT GitHub repository at: <https://github.com/Significant-Gravitas/Auto-GPT>

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Step 2: Download the Stable Version

1. Use Auto-GPT version 0.3.0, as it is the stable version.

Step 3: Download the Source Code

1. Download the source code by clicking on the appropriate option to download it as a ZIP file.

Step 4: Extract the Code

1. Unzip the downloaded ZIP file and open the extracted folder in Visual Studio Code (VS Code).

Step 5: Install Required Dependencies

1. Launch the terminal in VS Code and install the required dependencies. To do this, run the following command in the terminal:

* **pip install -r requirements.txt**

Step 6: Obtain an OpenAI API Key

1. Obtain an API key from OpenAI:
   * Go to <https://platform.openai.com/account/api-keys>.
   * Click on Create a Secret Key, provide a name, and create the key.

Step 7: Configure the .env File

1. Locate the file named .env.template in the Auto-GPT folder.
   * Rename the file to .env.
   * Open the renamed .env file and add your OpenAI API key.

Step 8: Run Auto-GPT

1. Once the configuration is complete, run Auto-GPT by executing the following command in the terminal:

* **python -m autogpt**

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**Testing Auto-GPT:**

After completing the setup, follow these steps to test Auto-GPT:

Step 1: Running Auto-GPT in Manual Mode

1. Launch Auto-GPT in manual mode by running the following command in the terminal:

* **python -m autogpt --manual**

Step 2: Naming the GPT

1. When prompted, provide a name for your GPT instance.  
   Example:
   * Name: "GoogleGPT"

Step 3: Assigning the Role

1. Define the role or purpose for your GPT instance.  
   Example:
   * Role: "An AI Bot to do lookup information."

Step 4: Setting Goals

1. Set the goals for the GPT instance. You can define up to 5 goals.  
   Examples of goals:
   * What is thanksgiving?
   * Terminate once done.

Step 5: Setting the Budget

1. Assign a budget for the GPT instance to manage costs effectively (if applicable).  
   Example:
   * Budget: "$10"

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**Challenges with Auto-GPT Setup and Usage:**

1. Unstable Standard Version of Auto-GPT

* Issue: The standard version of Auto-GPT is reported to have instability issues, potentially causing unexpected behavior during operation.
* Impact: Users may experience crashes, incomplete executions, or failures in meeting specified goals.
* Resolution:
  + Use the stable version (e.g., version 0.3.0) for a reliable experience.
  + Enable logging for detailed debugging to identify and resolve specific issues.

2. Unavailable Requirements for Installation

* Issue: Some dependencies listed in the requirements.txt file may not be downloadable due to compatibility issues, outdated libraries, or package deprecations.
* Impact: This may block the setup process, making Auto-GPT non-functional.
* Resolution:
  + Ensure you are using the correct Python version (e.g., Python 3.8 or higher).
  + Manually verify each dependency in the requirements.txt file and install compatible versions. Use the following command for individual installations:
  + If certain packages remain unavailable, refer to the GitHub Issues section for community-provided workarounds.

3. Lack of Detailed Installation Documentation

* Issue: The official documentation lacks comprehensive, step-by-step guidance for setting up Auto-GPT.
* Impact: New users may struggle to configure and run Auto-GPT correctly.
* Resolution:
  + Rely on community tutorials, blogs, and video guides for clearer instructions.
  + Refer to step-by-step documentation like the one provided here to simplify the process.
  + Contribute to the GitHub repository by reporting issues or requesting more detailed setup instructions.