Setting Up Your Development Environment

Objective: Install essential development tools and configure Git to begin software development projects.

Instructions: This assignment will walk you through the process of setting up your development environment by installing Visual Studio Code, Python, and GitBash, and by setting up a GitHub account. You will also install several useful extensions in Visual Studio Code to enhance your coding experience.

Part 1: Installation of Tools

Visual Studio Code Installation

1. Download VS Code from [Visual Studio Code Official Website](#).
2. Follow the installation instructions on the website.
3. **Submission:** Take a screenshot of the VS Code running on your computer.

Python Installation

1. Download Python from [Python Official Downloads](#).
2. During installation, ensure to select the checkboxes:
   - Add Python to PATH
   - Install launcher for all users (recommended)

To verify the installation, open your terminal or command prompt and run:

```
python --version
```

3. **Submission:** Take a screenshot of the terminal showing the Python version.

GitBash Installation

1. Download GitBash from [GitBash Downloads](#).
2. Follow the installation instructions provided.

To verify installation, open GitBash and type:

```
git --version
```

3. **Submission:** Take a screenshot of the GitBash window showing the Git version.

Part 2: Setting Up GitHub Account

1. Create a GitHub Account at [GitHub](#).

Configure your Git account with your name and email by running these commands in GitBash:

```
git config --global user.name "Your Name"
git config --global user.email "youremail@example.com"
```
Check your current configuration with:

```
git config --list
```

2. **Submission:** Take a screenshot of your Git configuration settings in GitBash.

Part 3: VS Code Extensions

Install the following extensions in Visual Studio Code by searching them in the Extensions view (`Ctrl+Shift+X`):

- Material Icon Theme
- GitLens – Git supercharged
- Prettier – Code formatter
- Python
- Python debugger
- Jupyter
- Code Spell Checker

Submission: Take a screenshot of your VS Code showing the installed extensions.

How to Submit: Upload the screenshots to Google Classroom in the respective assignment section. Ensure each screenshot is clearly labeled according to the part of the assignment it corresponds to.