

TASK 7 – SPECKIT PLUS ASSIGNMENT

Question:1 What is SPECKit Plus?

SPECKit Plus is a structured and AI-assisted framework used in software project development. It helps developers break a project into clear steps, starting from defining the purpose to planning, organizing tasks, and finally implementing the solution. It reduces confusion, improves clarity, and makes teamwork easier because every phase is clearly documented. Overall, it provides a roadmap for building software in an organized and professional way.

1)/constitution – Constitution Phase

The Constitution Phase defines the foundation of the project. It explains the project's purpose, the problem being solved, and the expected outcomes. It aligns everyone on the vision, goals, and scope.

2)/specify – Specify Phase

The Specify Phase focuses on requirements and features. It describes what the project will do, user needs, constraints, and acceptance criteria. This removes ambiguity and clarifies what must be built.

3)/plan – Plan Phase

The Plan Phase organizes how the project will be executed. Work is divided into milestones, timelines are created, tools are selected, and risks are identified. It acts as the roadmap for smooth development.

4)/tasks – Tasks Phase

In the Tasks Phase, the project is broken into actionable tasks. Each task has clear instructions and expected results. This makes teamwork easier and helps track progress efficiently.

5)/implement – Implement Phase

The Implement Phase is where actual coding and development take place. Developers follow the plan and tasks to build the software. It includes writing code, testing, debugging, and ensuring all requirements are met.

INSTALLATION OF SPECKIT PLUS STEP BY STEP:

Step 1: Check If Python is Installed

```
python --version  
or python3 --version  
✓ if a version like 'Python 3.10.0'  
✗ from www.python.org/download
```

Step 2: Install pipx (Recommended for SPECKit Plus)

```
python -m pip install --user pipx  
✓ bpython pipx ensurepath
```

Step 3: Verify pipx Installation

```
pipx --version
```

Step 4: Install SPECKit Plus

```
pipx install speckit-plus
```

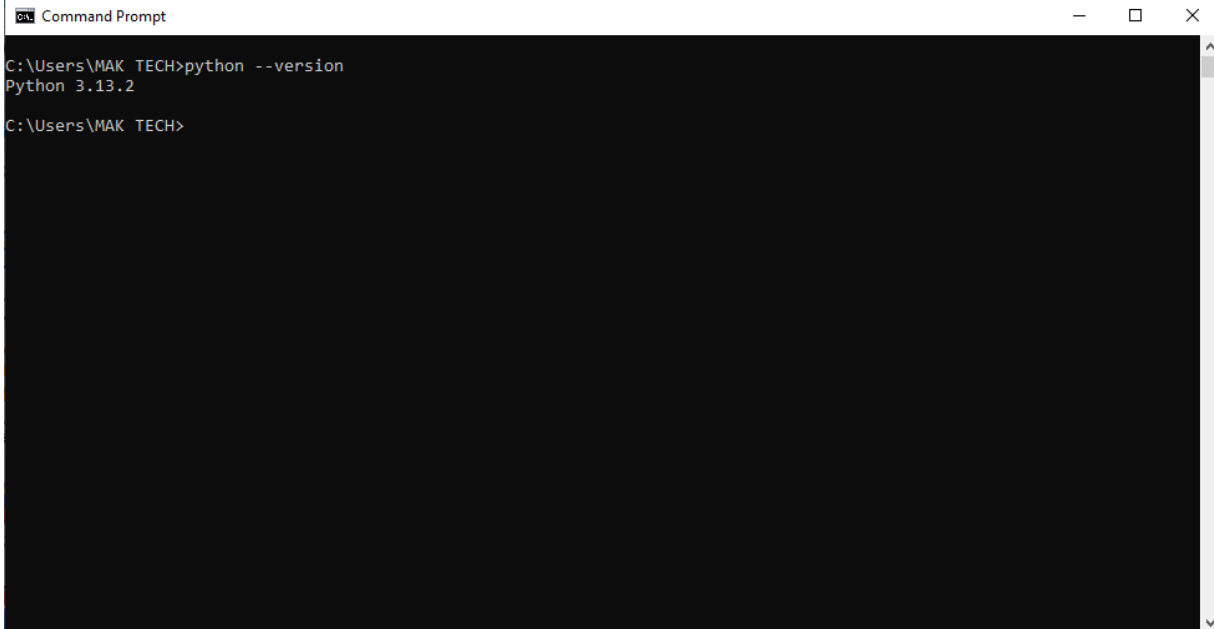
Step 5: Verify SPECKit Plus Installation

```
speckit --help
```

Step 6: Create Your First SPECKit Project

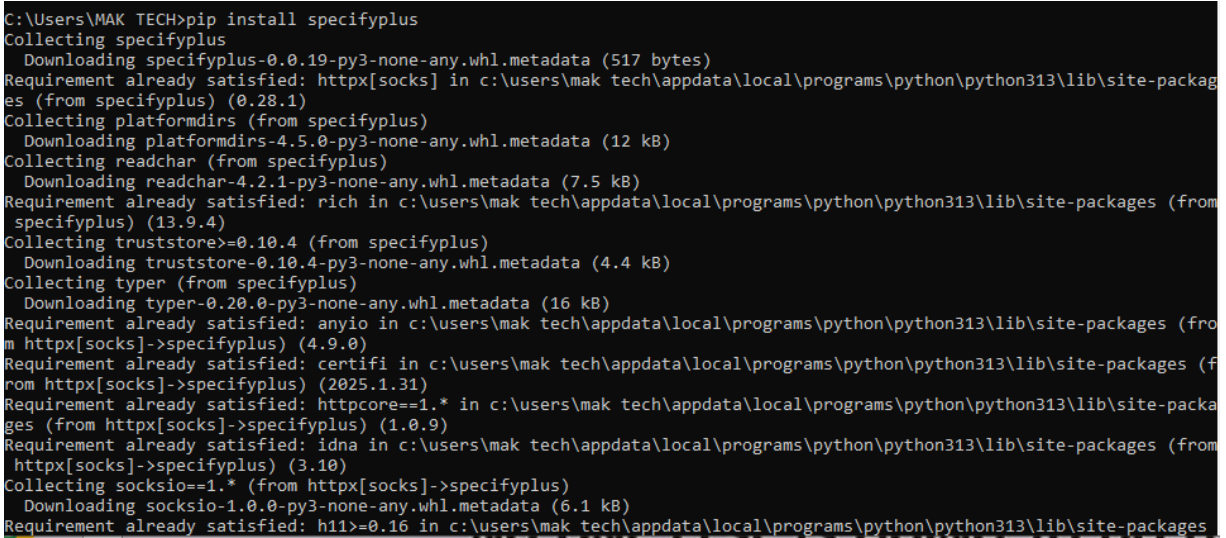
```
speckit new  
Project Name  
Project Directory
```

1.



```
Command Prompt
C:\Users\MAK TECH>python --version
Python 3.13.2
C:\Users\MAK TECH>
```

2.



```
C:\Users\MAK TECH>pip install specifyplus
Collecting specifyplus
  Downloading specifyplus-0.0.19-py3-none-any.whl.metadata (517 bytes)
Requirement already satisfied: httpx[socks] in c:\users\mak tech\appdata\local\programs\python\python313\lib\site-packages (from specifyplus) (0.28.1)
Collecting platformdirs (from specifyplus)
  Downloading platformdirs-4.5.0-py3-none-any.whl.metadata (12 kB)
Collecting readchar (from specifyplus)
  Downloading readchar-4.2.1-py3-none-any.whl.metadata (7.5 kB)
Requirement already satisfied: rich in c:\users\mak tech\appdata\local\programs\python\python313\lib\site-packages (from specifyplus) (13.9.4)
Collecting truststore>=0.10.4 (from specifyplus)
  Downloading truststore-0.10.4-py3-none-any.whl.metadata (4.4 kB)
Collecting typer (from specifyplus)
  Downloading typer-0.20.0-py3-none-any.whl.metadata (16 kB)
Requirement already satisfied: anyio in c:\users\mak tech\appdata\local\programs\python\python313\lib\site-packages (from httpx[socks]->specifyplus) (4.9.0)
Requirement already satisfied: certifi in c:\users\mak tech\appdata\local\programs\python\python313\lib\site-packages (from httpx[socks]->specifyplus) (2025.1.31)
Requirement already satisfied: httpcore==1.* in c:\users\mak tech\appdata\local\programs\python\python313\lib\site-packages (from httpx[socks]->specifyplus) (1.0.9)
Requirement already satisfied: idna in c:\users\mak tech\appdata\local\programs\python\python313\lib\site-packages (from httpx[socks]->specifyplus) (3.10)
Collecting socksio==1.* (from httpx[socks]->specifyplus)
  Downloading socksio-1.0.0-py3-none-any.whl.metadata (6.1 kB)
Requirement already satisfied: h11>=0.16 in c:\users\mak tech\appdata\local\programs\python\python313\lib\site-packages
```

3.

```
C:\Users\MAK TECH>specifyplus --version
SpecifyPlus CLI v0.0.19
C:\Users\MAK TECH>
```

4.

```
C:\Users\MAK TECH>specifyplus --help

SPECIFYPLUS

Panaversity SpecKit Plus - Spec-Driven Development Toolkit

Usage: specifyplus [OPTIONS] COMMAND [ARGS]...

Setup tool for Specify spec-driven development projects

Options
  --version -v  Show version and exit
  --help       Show this message and exit.

Commands
  init  Initialize a new Specify project from the latest template.
  check Check that all required tools are installed.
  version Show the version of SpecifyPlus CLI.

C:\Users\MAK TECH>
```