Experiment 1

Aim: Unit Testing with pytest: Write and execute unit tests for Python functions using the pytest framework, covering different test cases and assertions.

Installing Pytest:

```
D:\SE Lab\Textpoip install pytest
MARNING: Ignoring invalid distribution -treamlit (c:\users\rawat\appdata\local\programs\python\python310\lib\site-packages)
MARNING: Retrying (Retry(total=4, connect=None, read=None, red=nect=None, status=None)) after connection broken by 'NewConnectionError('cpip._vendor.urllib3.connection.HTTP
SConnection object at 0x000001F5000052709: Falled to establish a new connection: [Erron 11001] getaddrinfo failed')': /simple/pytest/
Collecting pytest
Downloading pytest-3.3.2-py3-none-any.whl.metadata (7.5 kB)
Collecting iniconfig (from pytest)
Downloading iniconfig:2.0.0-py3-none-any.whl.metadata (2.6 kB)
Requirement already satisfied: packaging in c:\users\rawat\appdata\local\programs\python\python310\lib\site-packages (from pytest) (23.1)
Collecting pluggy(2,>=1.5 (from pytest)
Downloading pluggy-1.5.0-py3-none-any.whl.metadata (4.8 kB)
Requirement already satisfied: exceptiongroupp=1.0.0rc8 in c:\users\rawat\appdata\local\programs\python\python310\lib\site-packages (from pytest) (1.1.3)
Requirement already satisfied: conlab=1 in c:\users\rawat\appdata\local\programs\python\python310\lib\site-packages (from pytest) (2.0.1)
Requirement already satisfied: colorama in c:\users\rawat\appdata\local\programs\python\python310\lib\site-packages (from pytest) (2.0.1)
Requirement already satisfied: colorama in c:\users\rawat\appdata\local\programs\python\python310\lib\site-packages (from pytest) (0.4.6)
Downloading pytest-8.3.2-py3-none-any.whl (341 kB)

Downloading pytest-8.3.3-py3-none-any.whl (20 kB)
Downloading pytest-8.3.3-py3-none-any.whl (20 kB)
Downloading pinggy-1.5.0-py3-none-any.whl (5.9 kB)

MARNING: Ignoring invalid distribution -treamlit (c:\users\rawat\appdata\local\programs\python\python310\lib\site-packages)

Installing collected packages: pluggy, inicorfig, pytest
Successfully installed inicorfig-2.0.0-py3-none-any.end (24.1.2 -> 24.2

[notice] A new release of pip is available: 24.1.2 -> 24.2

[notice] To update, run: python.exe -n pip install --upgrade pip
```

Fig 1: Installing Pytest in Command Prompt

Running Pytest:

Fig 2: Running Pytest Command Prompt