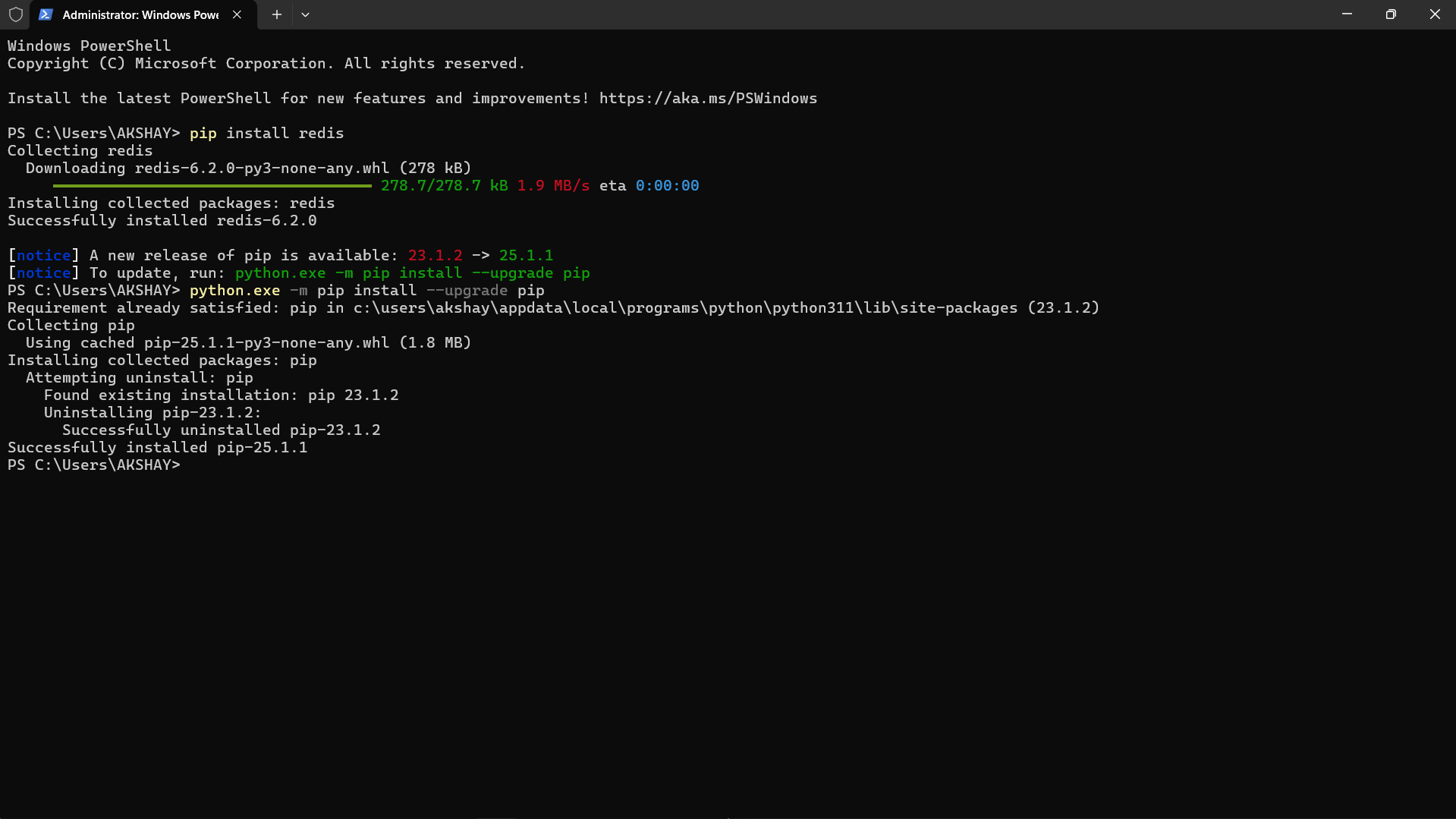
**Big Data Management - Assignment 5**

**Redis Data Management**

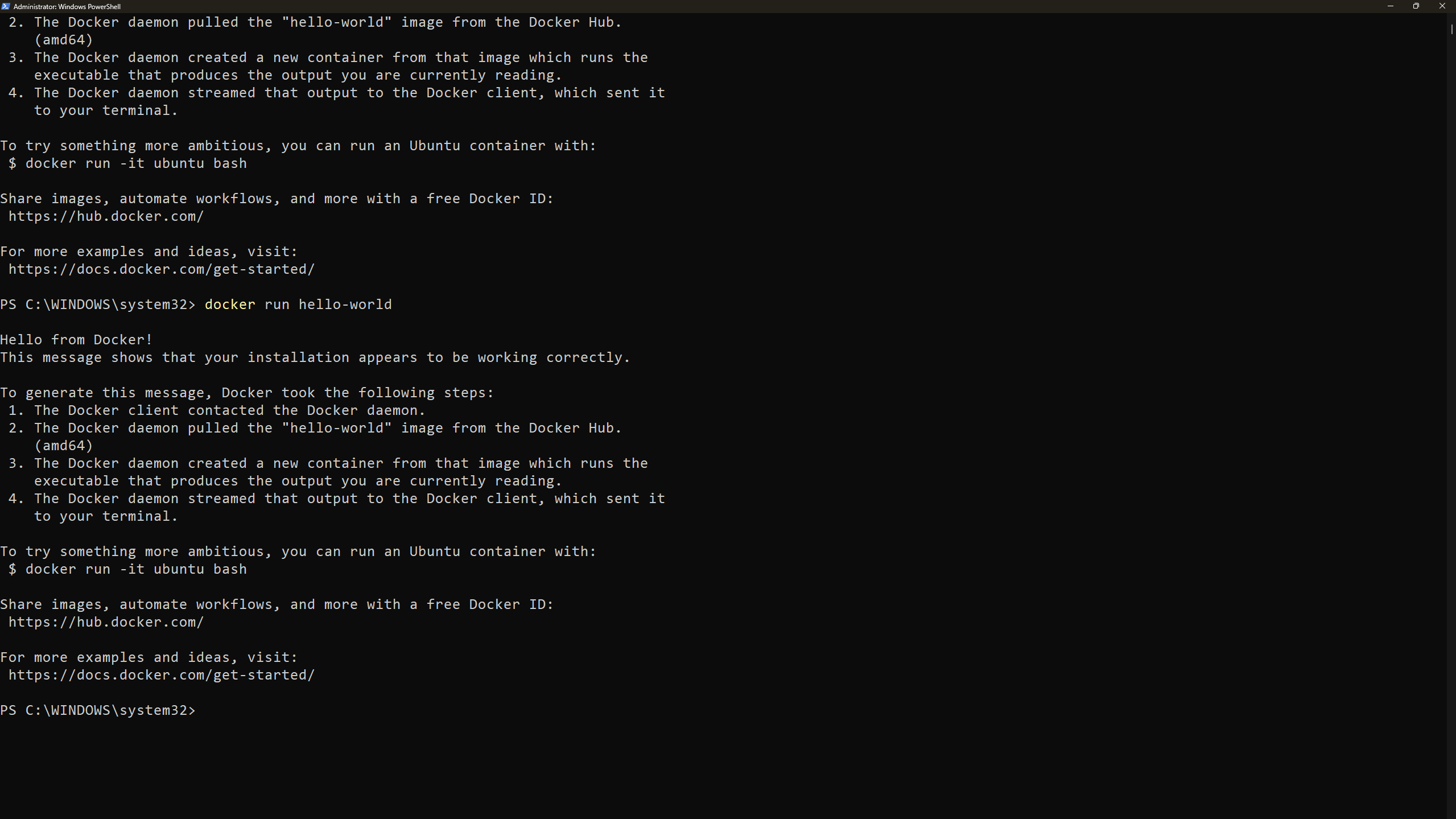
**Akshay Kumar (G24AI1033)**

**Github Link -**

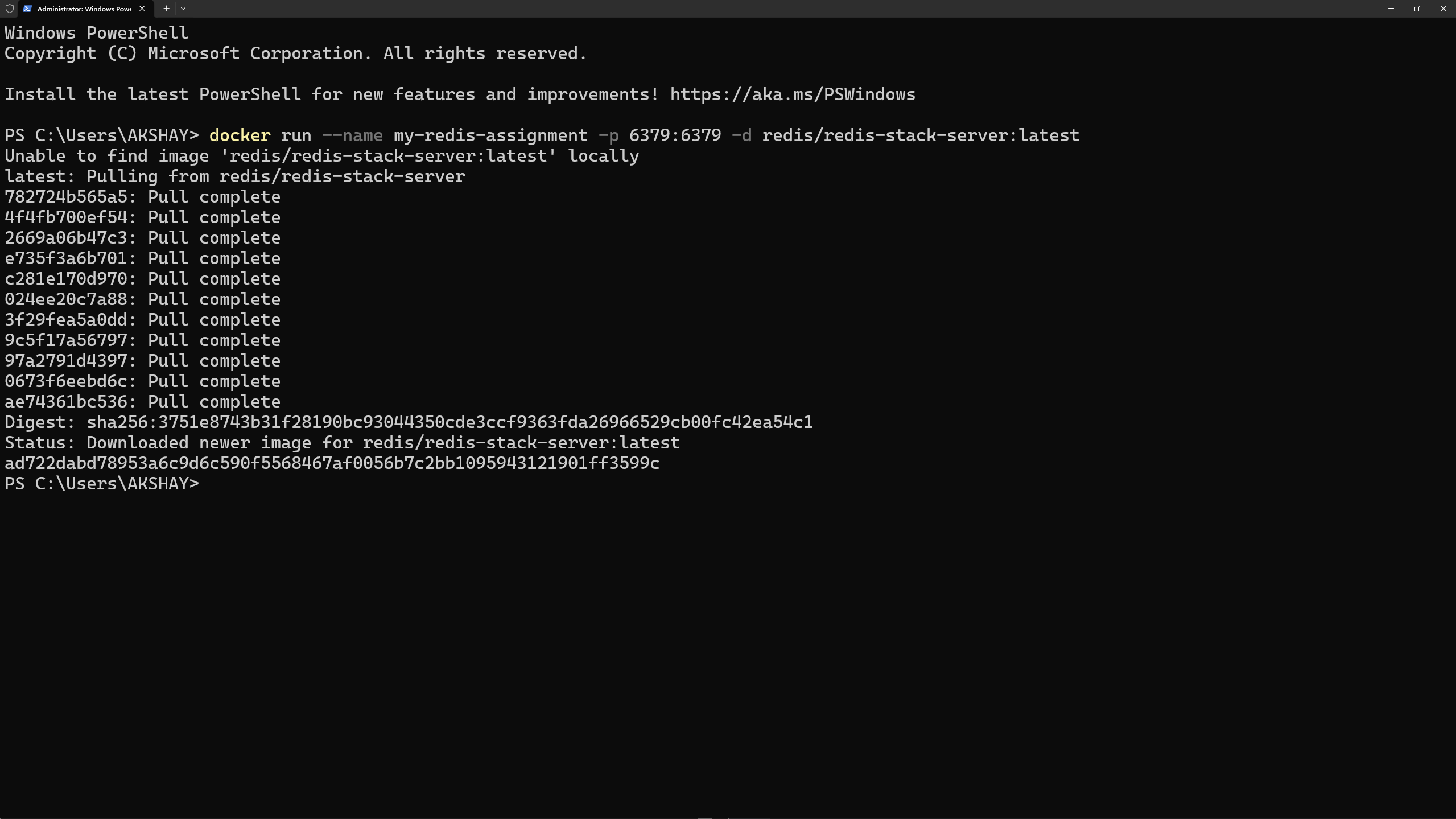
**1. Install the redis-py library**

**

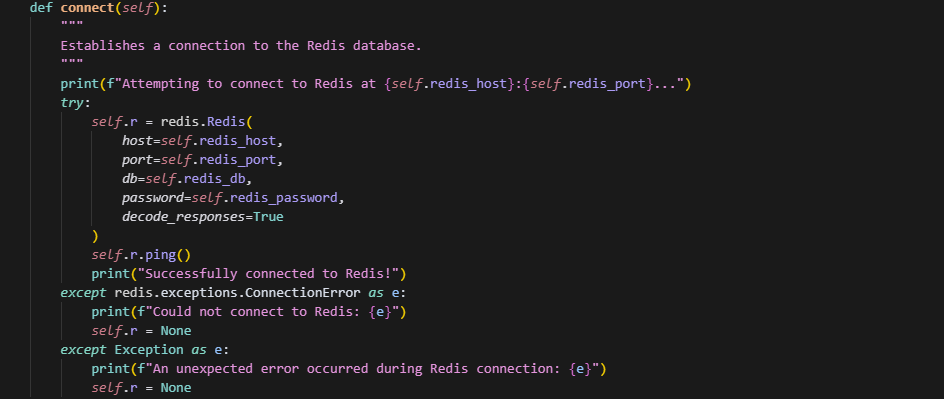
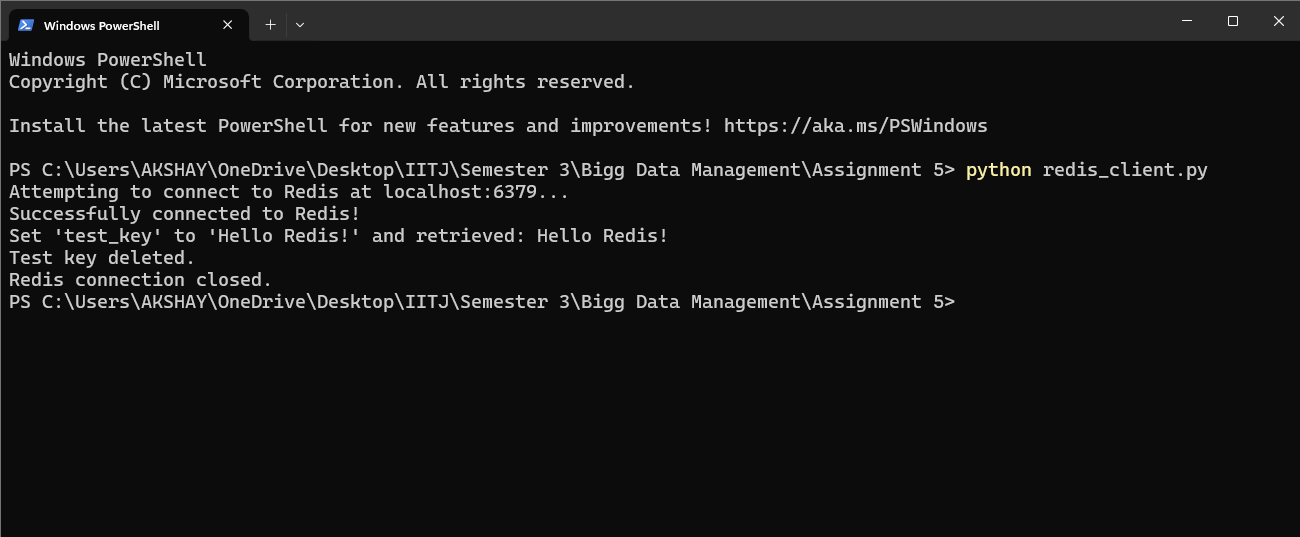
**2. Get your Redis Database Connection Details (Using Docker)**

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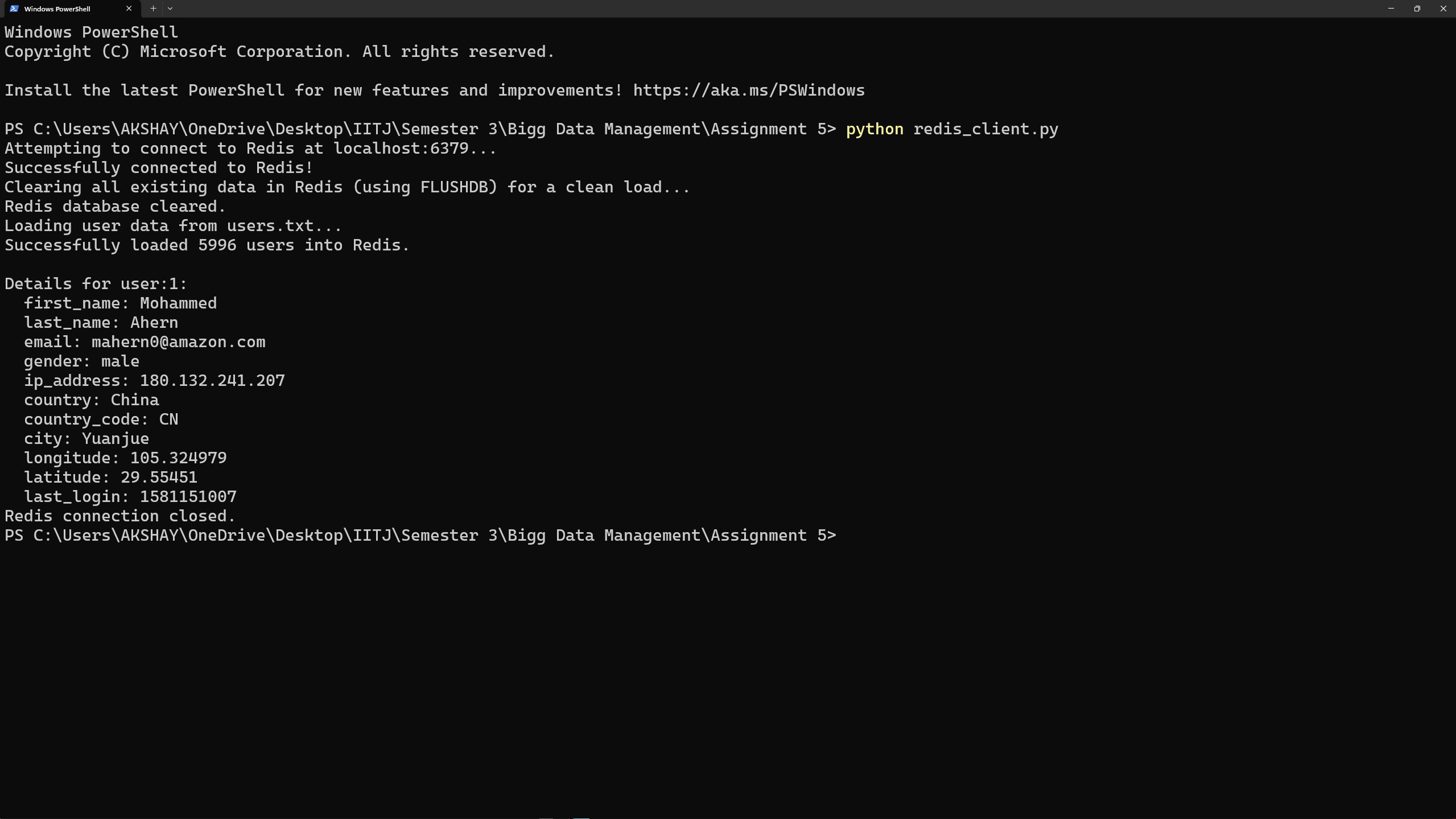
3. Running the Redis Docker Container

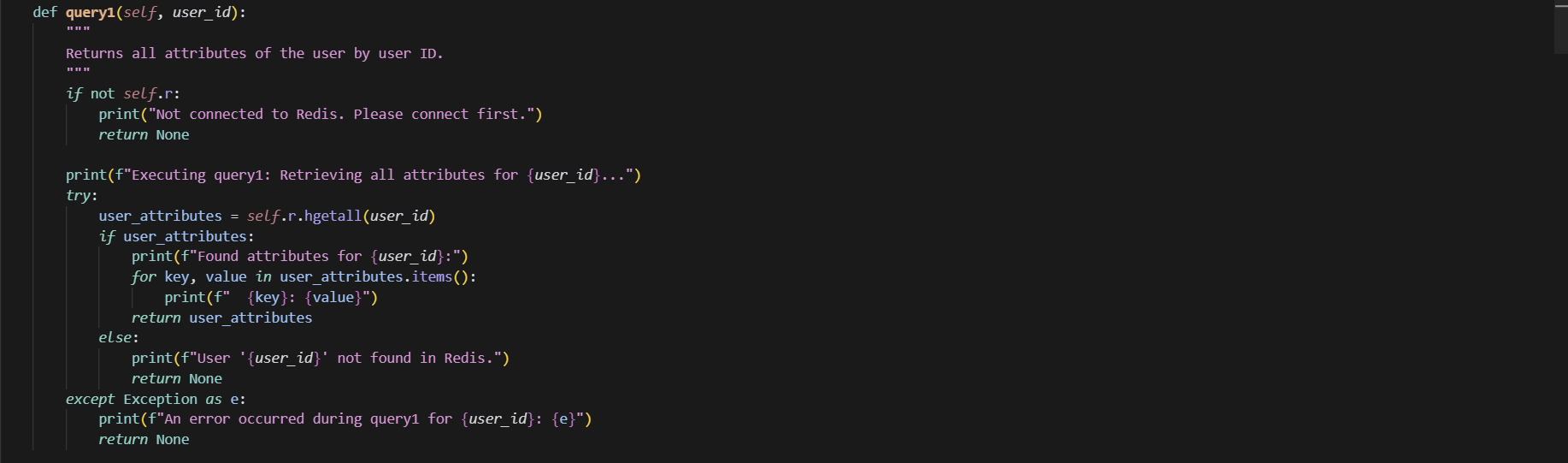


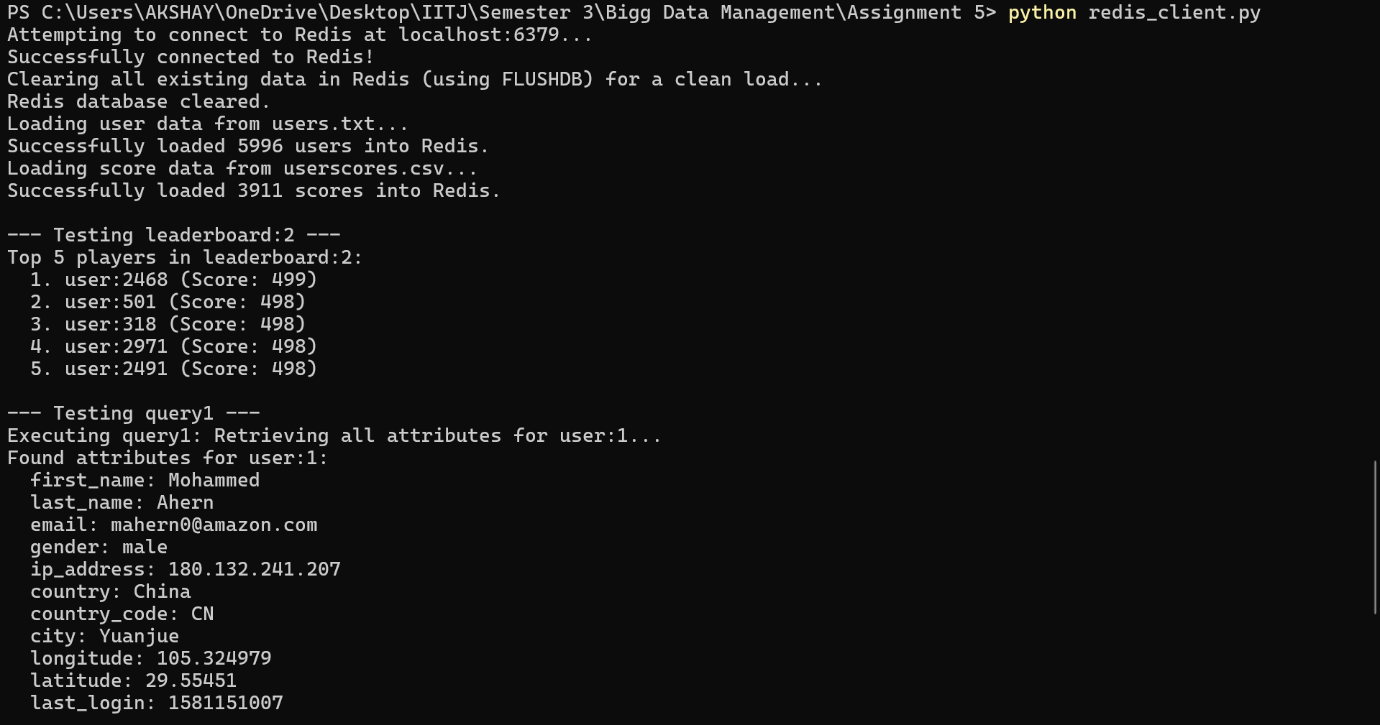
**4. Adding the basic structure and connect() method**



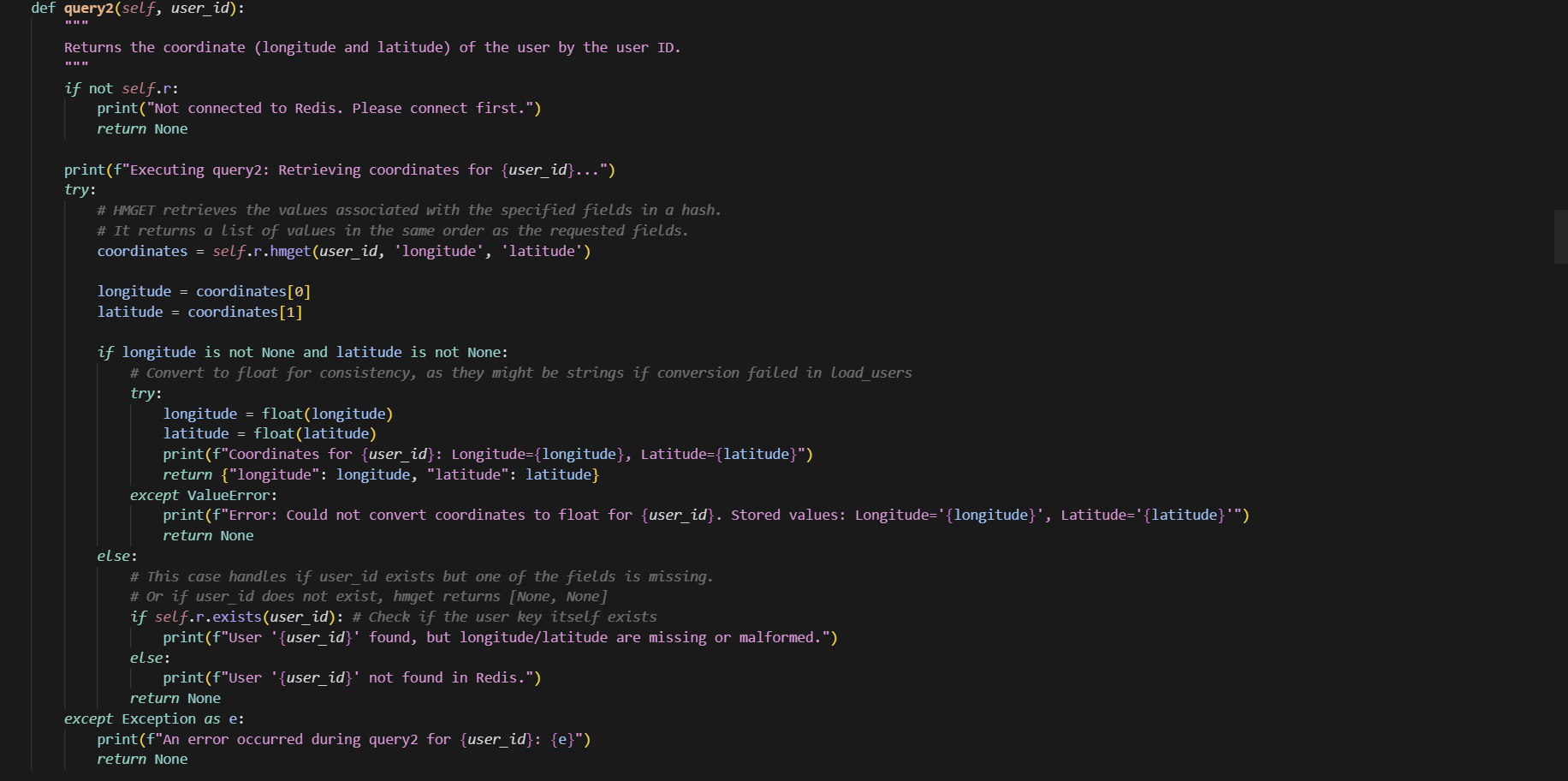
5. Implement load\_users(self, file\_path)

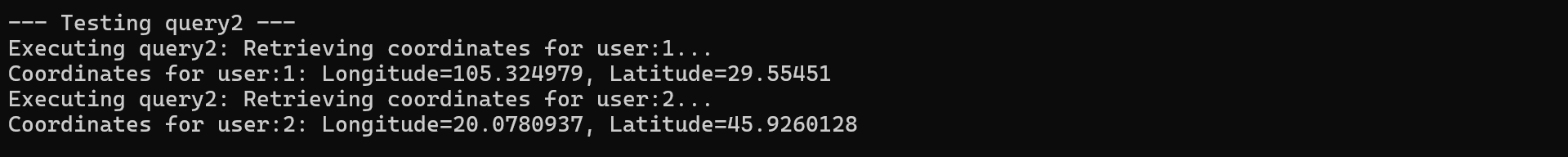


**6. Query1() :** This method retrieves all stored attributes for a specific user, identified by their user ID.****

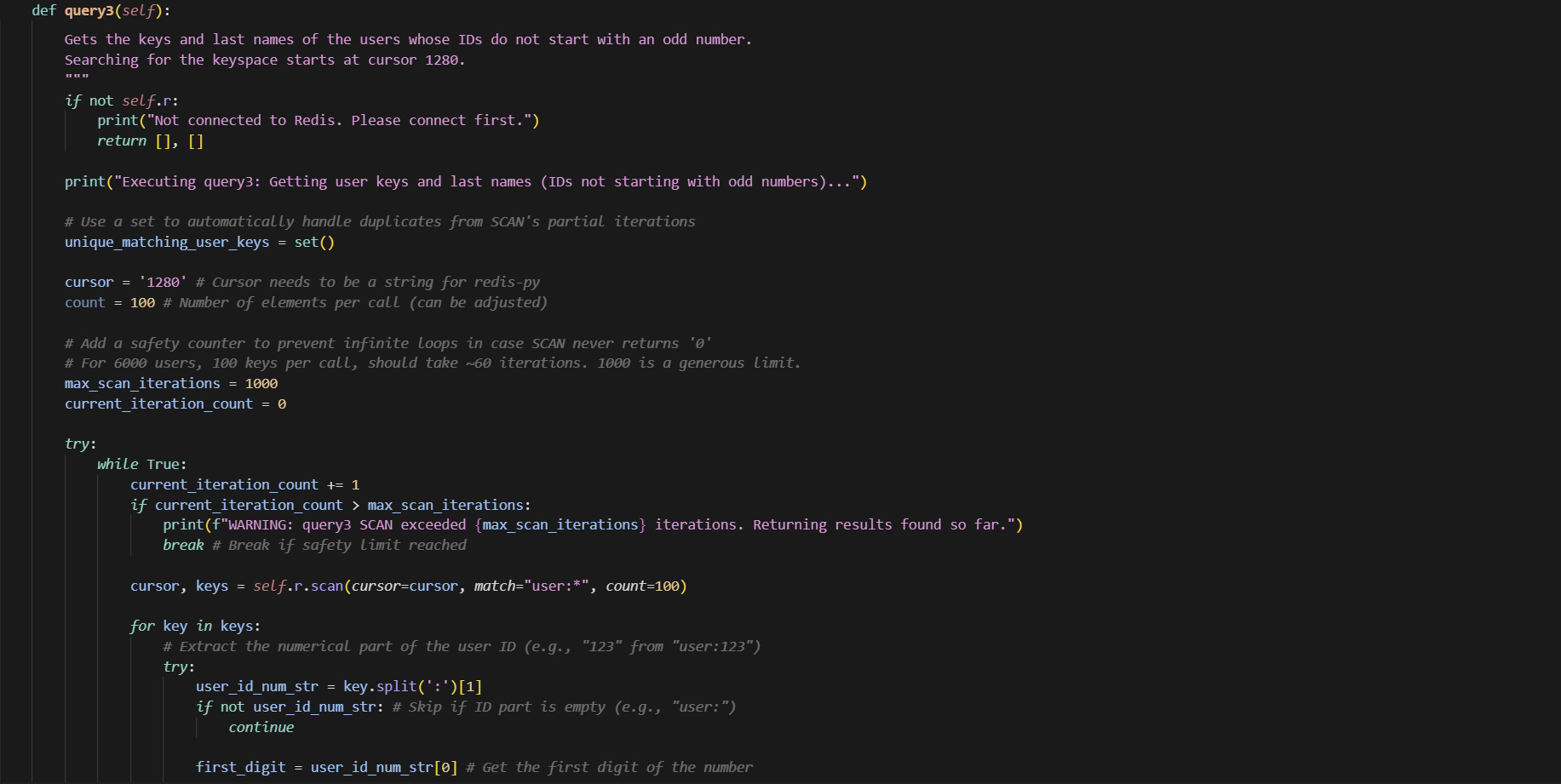


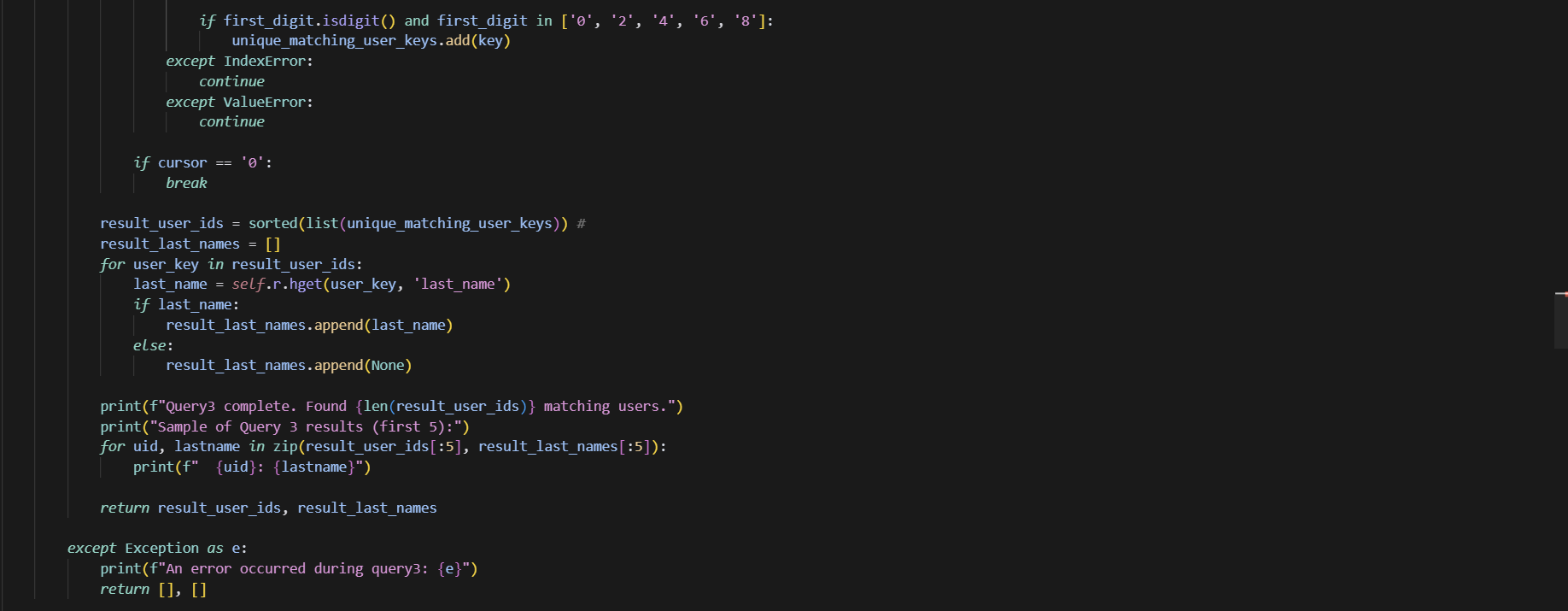
**7. Query2() :** This method fetches the longitude and latitude coordinates for a specific user ID.

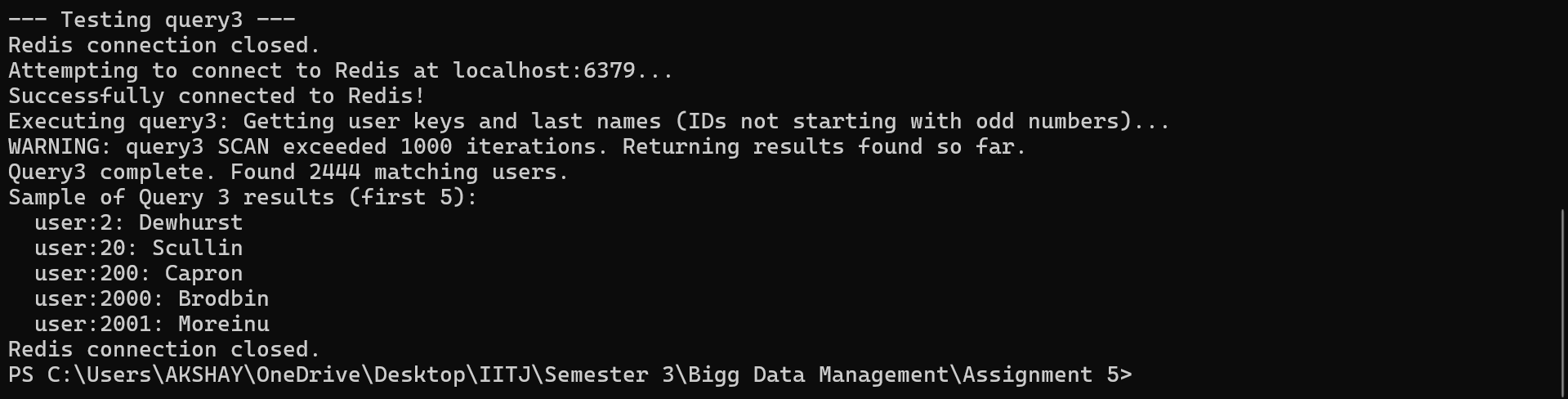
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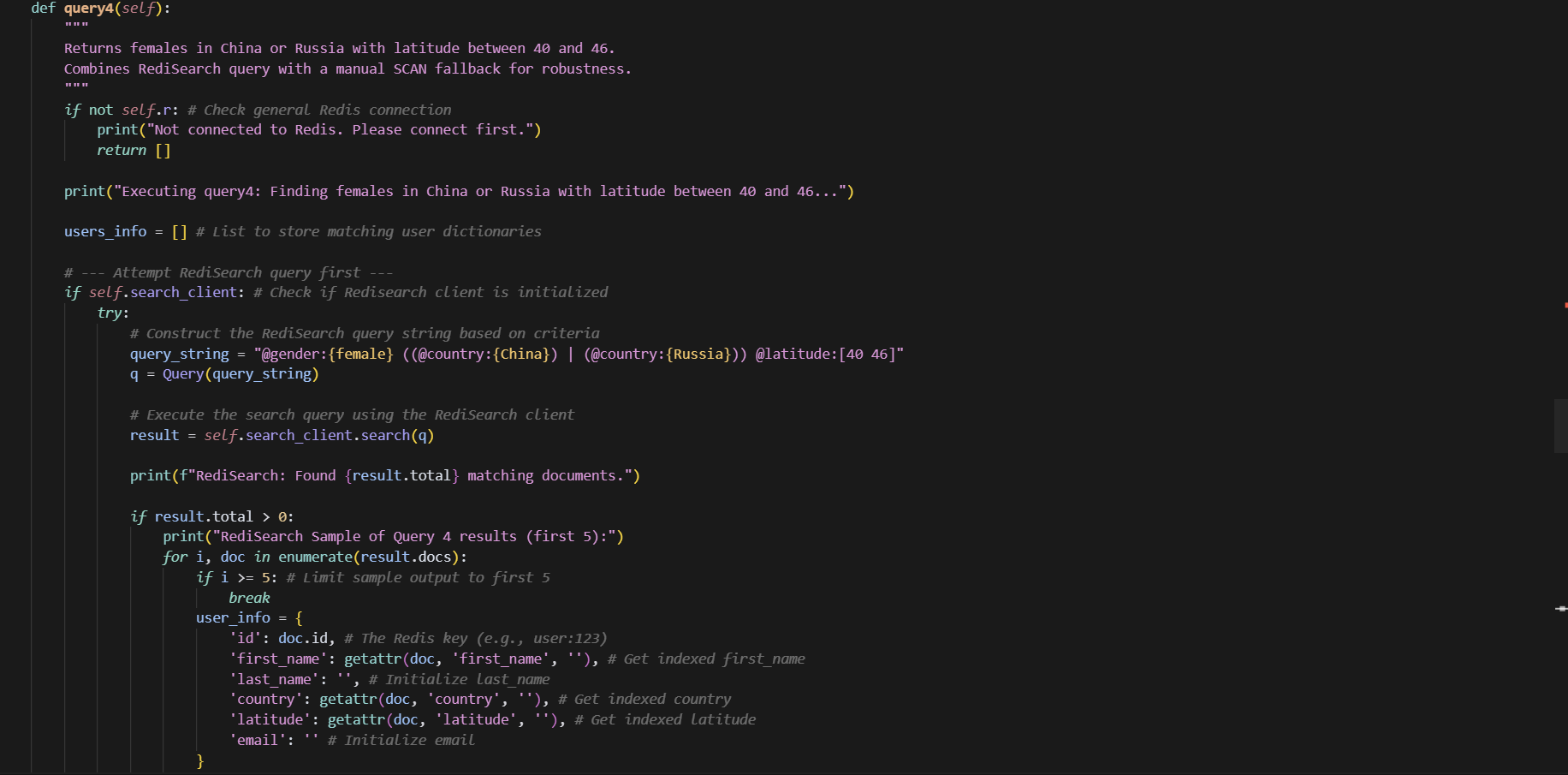
**8. Query3() :** This method scans the user keyspace, filters for users whose IDs do not start with an odd number, and returns their keys and last names.

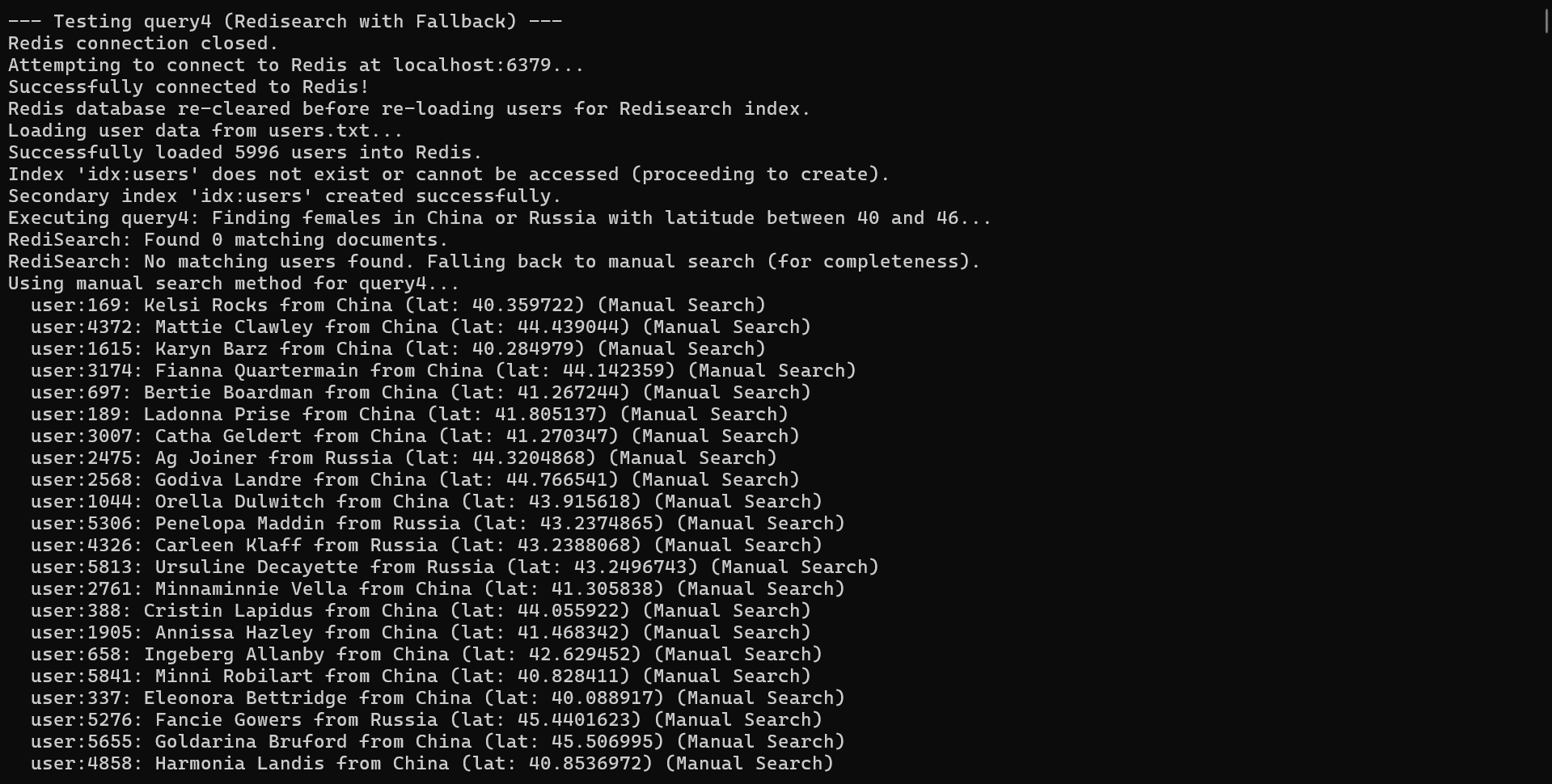
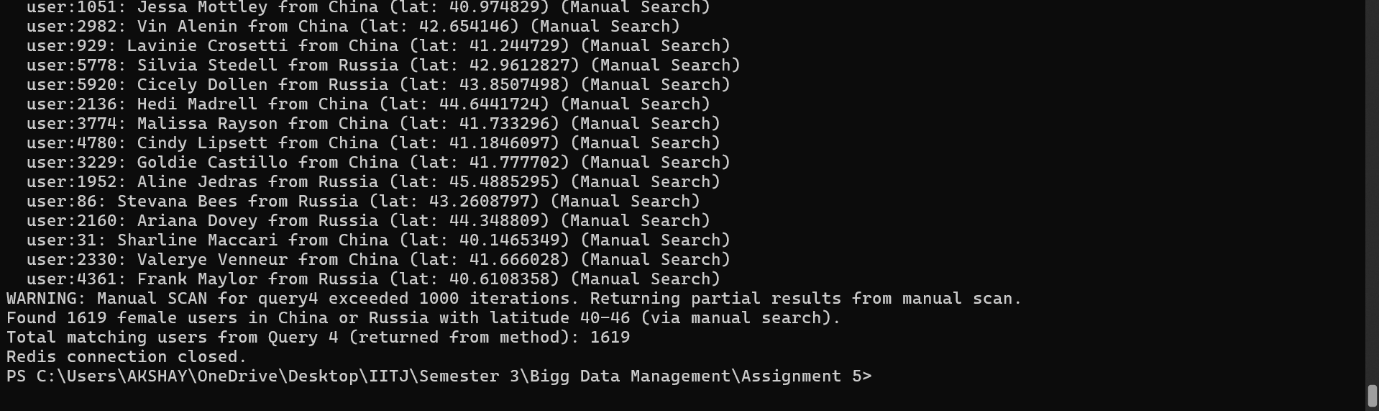
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**9. Query4() :** This method creates a secondary index in Redisearch to enable efficient querying on specific user attributes like gender, country, latitude, and first name.

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**10. Query5() :** This method finds female users in China or Russia with a specific latitude range (40 to 46), first attempting a RediSearch query and falling back to a manual scan if RediSearch fails or yields no results.

