Problem 1. (Name and Age) Write a program called name_age.py that accepts name (str) and age (str) as command-line arguments, and writes "name is age years old." to standard output.

```
>_ \_ \text{"/workspace/exercise1}

$ python3 name_age.py Alice 19
Alice is 19 years old.
$ python3 name_age.py Bob 23
Bob is 23 years old.
```

Problem 2. (*Greet Three*) Write a program called greet_three.py that accepts name1 (str), name2 (str), and name3 as command-line arguments, and writes "Hi name3, name2, and name1." to standard output.

```
>_ ~/workspace/exercise1

$ python3 greet_three.py Alice Bob Carol
Hi Carol, Bob, and Alice.
$ python3 greet_three.py Dan Eve Fred
Hi Fred, Eve, and Dan.
```

Problem 3. (Triangle Inequality) Write a program called triangle.py that accepts x (int), y (int), and z (int) as command-line arguments, and writes to standard output true if each one of them is less than or equal to the sum of the other two, and False otherwise.

```
>_ ~/workspace/exercise1

$ python3 triangle.py 3 3 3
True
$ python3 triangle.py 2 4 7
False
```

Problem 4. (Body Mass Index) The body mass index (BMI) is the ratio of the weight w of a person (in kg) to the square of the height h (in m). Write a program called bmi.py that accepts w (float) and h (float) as command-line arguments, and writes the BMI to standard output.

```
>_ ~/workspace/exercise1

$ python3 bmi.py 75 1.83
22.395413419331717
$ python3 bmi.py 97 1.75
31.6734693877551
```

Problem 5. (Random Integer) Write a program called random_int.py that accepts a (int) and b (int) as command-line arguments, and writes to standard output a random integer between a (inclusive) and b (exclusive).

```
>_ ~/workspace/exercise1

$ python3 random_int.py 10 20
13
$ python3 random_int.py 10 20
10
```

Files to Submit

- name_age.py
- $2. \; {\tt greet_three.py}$
- 3. triangle.py
- 4. bmi.py

$5. \text{ random_int.py}$

Before you submit your files, make sure:

- You do not use concepts from sections beyond "Basic Data Types".
- Your code is adequately commented, follows good programming principles, and meets any specific requirements such as corner cases and running times.