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─────────────────────────── prog01.py ───────────────────────────

#!/usr/bin/env python

print ("Hello world!")

─────────────────────────── prog02.py ───────────────────────────

#!/usr/bin/env python

import sys

print (sys.argv)

─────────────────────────── prog03.py ───────────────────────────

#!/usr/bin/env python

import sys

my_program = sys.argv[0]
my_args = sys.argv[1:]
my_len = len(my_args)

my_output = ("I ran the program {0} with {1} arguments {2}"
             .format(my_program, my_len, my_args))

print (my_output)

─────────────────────────── prog04.py ───────────────────────────

#!/usr/bin/env python

import sys

my_program = sys.argv[0]
my_args = sys.argv[1:]
my_len = len(my_args)

my_output = ("I ran the program {0} with {1} arguments {2}"
             .format(my_program, my_len, my_args))

print(my_output)
print('\n')

my_a = float(sys.argv[1])
my_b = float(sys.argv[2])
my_answer = my_a + my_b

my_sum = ("The sum of {0} and {1} is {2}"
             .format(my_a, my_b, my_answer))

print(my_sum)
```

```python
#!/usr/bin/env python

import sys

my_program = sys.argv[0]
my_args = sys.argv[1:]
my_len = len(my_args)

my_output = ("I ran the program {0} with {1} arguments {2}"
            .format(my_program, my_len, my_args))

print(my_output)
print('\n')

if (my_len != 2):
    print("Error: two arguments required.")
    exit(0)

my_a = float(sys.argv[1])
my_b = float(sys.argv[2])
my_answer = my_a + my_b

my_sum = ("The sum of {0} and {1} is {2}"
            .format(my_a, my_b, my_answer))

print(my_sum)
```

```python
#!/usr/bin/env python

import sys

def is_number(s):
    try:
        float(s)
        return True
    except ValueError:
        return False

my_program = sys.argv[0]
my_args = sys.argv[1:]
my_len = len(my_args)

my_output = ("I ran the program {0} with {1} arguments {2}"
            .format(my_program, my_len, my_args))

print(my_output)
print('\n')

if (my_len != 2):
    print("Error: two arguments required.")
    exit(0)

if (is_number(sys.argv[1]) & is_number(sys.argv[2])):

    my_a = float(sys.argv[1])
    my_b = float(sys.argv[2])
    my_answer = my_a + my_b

    my_sum = ("The sum of {0} and {1} is {2}"
                .format(my_a, my_b, my_answer))

    print(my_sum)

else:

    print("Error: Both aguments need to be numbers!")
    exit(0)
```