FirstClassDemo

August 21, 2025

1 Test

```
[2]: print("hello world")
```

```
hello world
```

```
[1]: print('Hello, my name is Wilson')
```

```
Hello, my name is Wilson
```

- personalize test.

2 Let's do some simple math.

- plus

print("2+3 =", 2+3)

- multiplication

```
[4]: print("10*5 = ", 10*5)
```

```
10*5 =  50
```

3 ASCII Art

```
[5]: print("  *  ")
     print(" *** ")
     print("*****")
```

```
  *
 ***
*****
```

```
[6]: print("My favorite color is blue")
     print("My favorite food is beef stew.")
```

```
My favorite color is blue
My favorite food is beef stew.
```

4 Working with Libraries

```
[8]: import datetime
     print('the current time is: ', datetime.datetime.now())
```

```
the current time is:  2025-08-21 13:09:37.913756
```

5 Some Challenges

```
[13]: for i in range(1, 11):
          print("5 *",i," = ",i*5)
```

```
5 * 1   =   5
5 * 2   =   10
5 * 3   =   15
5 * 4   =   20
5 * 5   =   25
5 * 6   =   30
5 * 7   =   35
5 * 8   =   40
5 * 9   =   45
5 * 10  =   50
```

6 Let's do some plotting

```
[37]: import matplotlib.pyplot as plt

      x = list(range(0,20))
      y = [(i+2) for i in x]

      plt.plot(x,y)
      plt.title("f(x) = x+2")
      plt.xlabel("x")
      plt.ylabel("y")
      plt.show()
```

f(x) = x+2