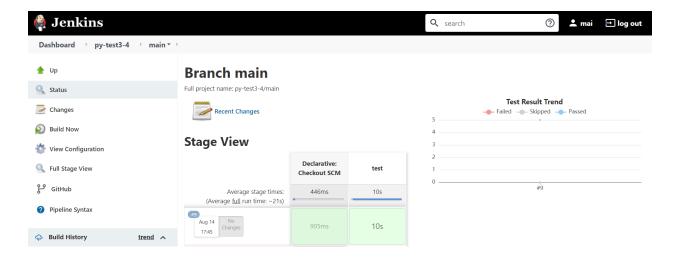
Maisha Ahmed Deployment #3

First successful test build: It took me a long time to get my first successful build because I did not update my Jenkins plug-ins.



Added Feature: I added a subtraction function that takes in three arguments.

```
29
30
     #The subtraction function
31
     def subtract3(arg1, arg2, arg3):
32
         arg1conv = conv(arg1)
         arg2conv = conv(arg2)
33
34
         arg3conv = conv(arg3)
35
36
         if isinstance(arg1conv,str) or isinstance(arg2conv, str) or isinstance(arg3conv, str):
             arg1conv = str(arg1conv)
37
             arg2conv = str(arg2conv)
38
39
             arg3conv = str(arg3conv)
40
         return arg1conv - arg2conv - arg3conv
```

```
if argnumbers == 3:
12 print("")
13
      print("The result is " + str(calc.subtract3(str(sys.argv[1]), str(sys.argv[2]), str(sys.argv[3]))))
      print("")
14
      sys.exit(0)
15
16
17 elif argnumbers == 2:
       print("The result is " + str(calc.add2(str(sys.argv[1]), str(sys.argv[2]))))
       print("")
20
       sys.exit(0)
21
22
23 elif argnumbers != 3 and argnumbers != 2:
      print("You entered " + str(argnumbers) + " value/s.")
      print("")
27
      print("Usage: 'add2vals X Y' where X and Y are individual values. or 'subtract3vals' XYZ where xyz are individual values.")
28
    print("
                    If add2vals is not in your path, usage is './add2vals X Y'.")
29
     print("
30
                    If unbundled, usage is 'python add2vals.py X Y'.")
      print("")
       sys.exit(1)
```

Failed Tests

1. Subtract three floats: I passed a string ('Maisha') as one of the arguments and predictably Jenkins returned an error.

```
arg1 = '14.5', arg2 = '4.2', arg3 = 'Maisha'

def subtract3(arg1, arg2, arg3):
    arg1conv = conv(arg1)
    arg2conv = conv(arg2)
    arg3conv = conv(arg3)

if isinstance(arg1conv,str) or isinstance(arg2conv, str) or isinstance(arg3conv, str):
    arg1conv = str(arg1conv)
    arg2conv = str(arg2conv)
    arg3conv = str(arg3conv)
> return arg1conv - arg2conv - arg3conv
E TypeError: unsupported operand type(s) for -: 'str' and 'str'

sources/calc.py:40: TypeError
```

2. Subtract three integers: I passed two arguments instead of three and I received an error message letting me know that an argument is missing.

```
TestCalc.test_subtract_integers

self = <test_calc.TestCalc testMethod=test_subtract_integers>

def test_subtract_integers(self):
    """

    Test that the subtraction of three integers returns the correct total
    """

result = calc.subtract3(10, 2)

TypeError: subtract3() missing 1 required positional argument: 'arg3'
```

3. Unexpected error: I fixed the subtract_floats test by replacing the string argument with a float but I got a strange error. I calculated the result to be 10.1 but the program added a lot of zeroes. I admit that I was taken by surprise.

Test Success: I replaced one of the arguments so the result would be a whole number.

```
def test_subtract_floats(self):
    """
    Test that the subtraction of three floats returns the correct result
    """
    result = calc.subtract3('14.5', '4.2', '0.3')
    self.assertEqual(result, 10.0)
```

```
platform linux -- Python 3.7.10, pytest-6.2.5, py-1.10.0, pluggy-1.0.0 --
/var/lib/jenkins/workspace/py_test2_main/test3/bin/python3
cachedir: .pytest_cache
rootdir: /var/lib/jenkins/workspace/py_test2_main
collecting ... collected 7 items
sources/test_calc.py::TestCalc::test_add_floats PASSED
                                                              [ 14%]
sources/test_calc.py::TestCalc::test_add_integers PASSED
                                                               [ 28%]
sources/test_calc.py::TestCalc::test_add_string_and_integer PASSED
                                                               [ 42%]
sources/test_calc.py::TestCalc::test_add_string_and_number PASSED
                                                               [ 57%]
sources/test_calc.py::TestCalc::test_add_strings PASSED
                                                               [ 71%]
sources/test_calc.py::TestCalc::test_subtract_floats PASSED
                                                               [ 85%]
sources/test_calc.py::TestCalc::test_subtract_integers PASSED
                                                               [100%]
```