

CODE COVERAGE ASSIGNMENT

```
cal.py
def add(a, b):
    return a + b

def subtract(a, b):
    return a - b

def multiply(a, b):
    return a * b

def divide(a, b):
    if b == 0:
        raise ValueError("Cannot divide by zero")
    return a / b
```

test_calculator_partial.py

```
import pytest
from cal import add, divide

def test_add():
    assert add(2, 3) == 5
    assert add(-1, 1) == 0

def test_divide():
    assert divide(10, 2) == 5
    with pytest.raises(ValueError):
        divide(5, 0)
```

Commands:

```
coverage run -m pytest test_calculator_partial.py
coverage report -m
```

```
test_calculator_partial.py .. [100%]

===== 2 passed in 0.01s =====
(venv) cselab1@rit:~/cs130deveops$ coverage report -m
Name                               Stmts  Miss  Cover   Missing
-----
cal.py                             10      2    80%    5, 8
test_calculator_partial.py         9      0   100%
-----
TOTAL                               19      2    89%
```

```

# test_calculator_full.py

import pytest
from cal import add, subtract, multiply, divide

def test_add():
    assert add(2, 3) == 5
    assert add(-1, 1) == 0

def test_subtract():
    assert subtract(5, 3) == 2
    assert subtract(0, 5) == -5

def test_multiply():
    assert multiply(2, 3) == 6
    assert multiply(-1, 3) == -3

def test_divide():
    assert divide(10, 2) == 5
    with pytest.raises(ValueError):
        divide(5, 0)

```

Commands:

```

coverage run -m pytest test_calculator_partial.py
coverage report -m

```

```

test_calculator_partial.py .... [100%]

===== 4 passed in 0.02s =====
(venv) cselab1@rit:~/cs130devops$ coverage report -m
Name                               Stmts  Miss  Cover   Missing
-----
cal.py                             10      0   100%
test_calculator_partial.py         15      0   100%
-----
TOTAL                               25      0   100%

```