VS CODE:

import multiprocessing

def worker\_function(worker\_id, shared\_data):

    print(f"Worker {worker\_id} received: {shared\_data.value}")

if \_\_name\_\_ == "\_\_main\_\_":

    # Shared data among processes

    shared\_data = multiprocessing.Value('i', 10)

    # Creating multiple processes

    num\_workers = 3

    processes = []

    for i in range(num\_workers):

        process = multiprocessing.Process(target=worker\_function, args=(i, shared\_data))

        processes.append(process)

        process.start()

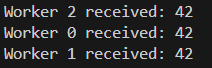
    # Broadcasting data to all processes

    shared\_data.value = 42

    # Waiting for all processes to finish

    for process in processes:

        process.join()



ONLINE COMPILER:

import multiprocessing

def worker\_function(worker\_id, shared\_data):

print(f"Worker {worker\_id} received: {shared\_data.value}")

if \_\_name\_\_ == "\_\_main\_\_":

# Shared data among processes

shared\_data = multiprocessing.Value('i', 10)

# Creating multiple processes

num\_workers = 3

processes = []

for i in range(num\_workers):

process = multiprocessing.Process(target=worker\_function, args=(i, shared\_data))

processes.append(process)

process.start()

# Broadcasting data to all processes

shared\_data.value = 42

# Waiting for all processes to finish

for process in processes:

process.join()

