```
from pynq import Overlay, allocate

# Load the bitstream
overlay = Overlay("adder.bit")
dma = overlay.axi_dma_0  # AXI DMA instance from the block design

# Allocate memory buffers
input_buffer = allocate(shape=(2,), dtype='int32')
output_buffer = allocate(shape=(1,), dtype='int32')

# Assign two integers to the input buffer
input_buffer[0] = 10
input_buffer[0] = 50

# Send the data using DMA (to your custom IP)
dma.sendchannel.transfer(input_buffer)
dma.recvchannel.transfer(output_buffer)

# Wait for the transfer to complete
dma.sendchannel.wait()
dma.recvchannel.wait()

# Check the output
print(f"Sent integers: {input_buffer[0]}")
print(f"Received sum: {output_buffer[0]}")
```

```
from pynq import Overlay, allocate
overlay = Overlay("adder.bit")
                                                        Bitstream loading and
dma = overlay.axi_dma_0
                                                        DMA initialization
input_buffer = allocate(shape=(2,), dtype='int32')
output_buffer = allocate(shape=(1,), dtype='int32')
                                                        - Allocate memory buffers
input_buffer[0] = 10
                                                       and initialize with the
input_buffer[1] = 50
                                                       values to be sent
dma.sendchannel.transfer(input_buffer)
                                                         Send the data to PL
dma.recvchannel.transfer(output_buffer)
                                                         and receive the output from PL
dma.sendchannel.wait()
                                                        wait for the DMA transfers
dma.recvchannel.wait()
                                                        to complete
print(f"Sent integers: {input_buffer[:]}")
print(f"Received sum: {output_buffer[0]}")
```