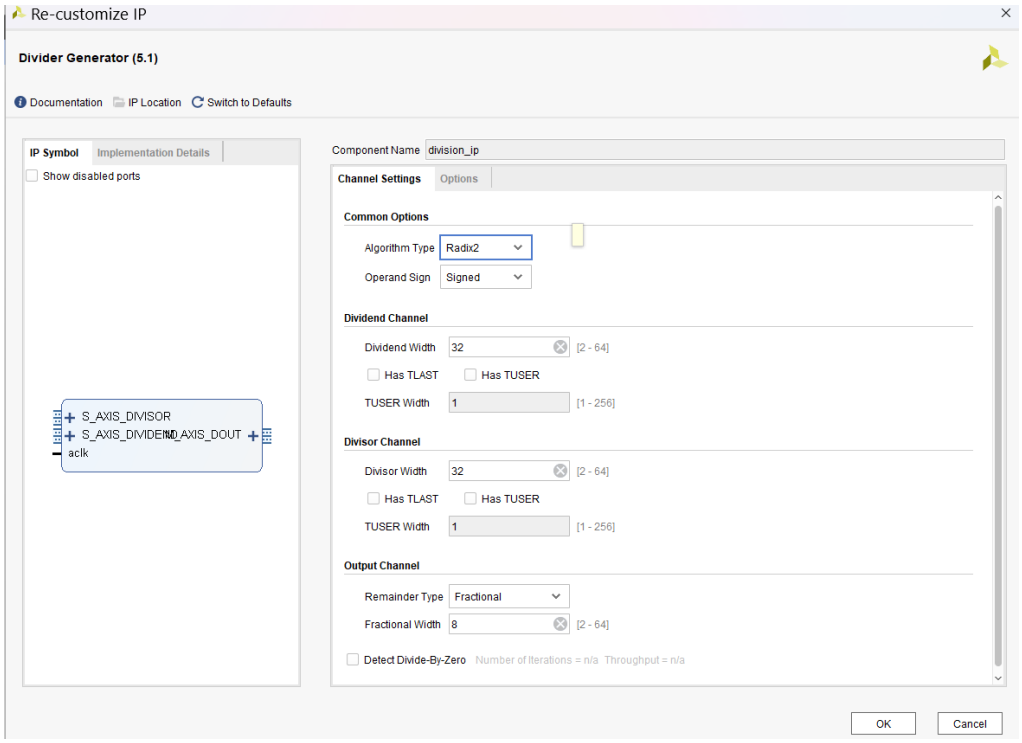
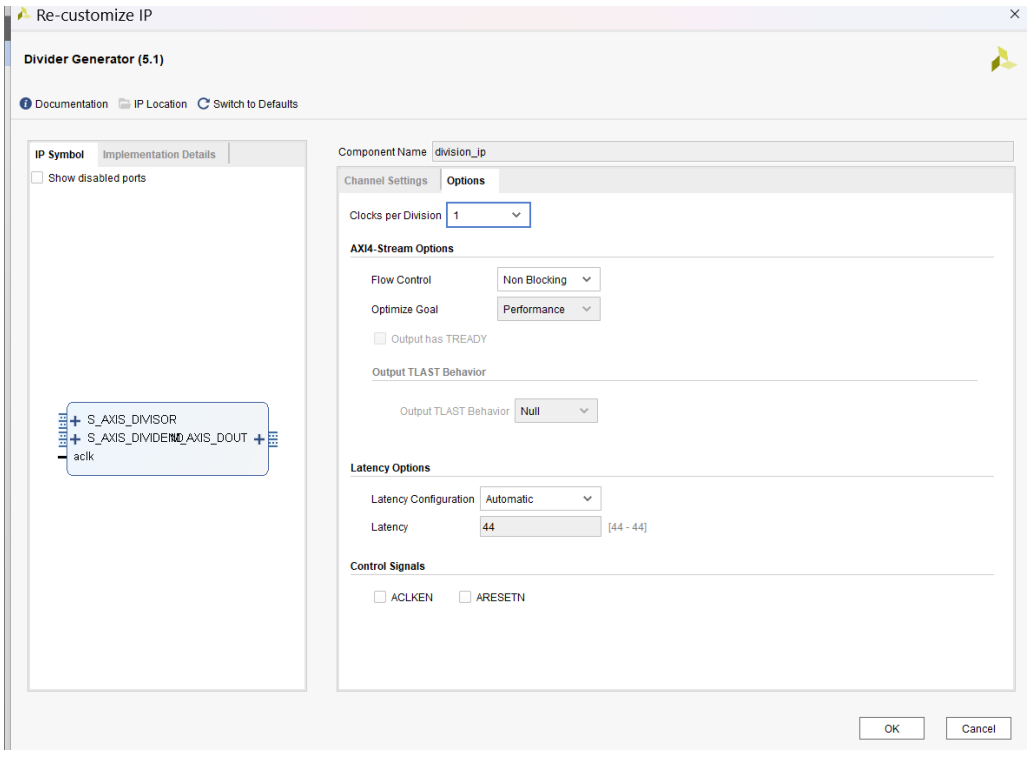
Inside the Sobel module there is a DIVIDER GENERATOR instantiation named division_ip.

For creating the instance follow the steps:

Go to IP Catalog in project manager >>> search for divider generator IP >>> make its settings as shown below

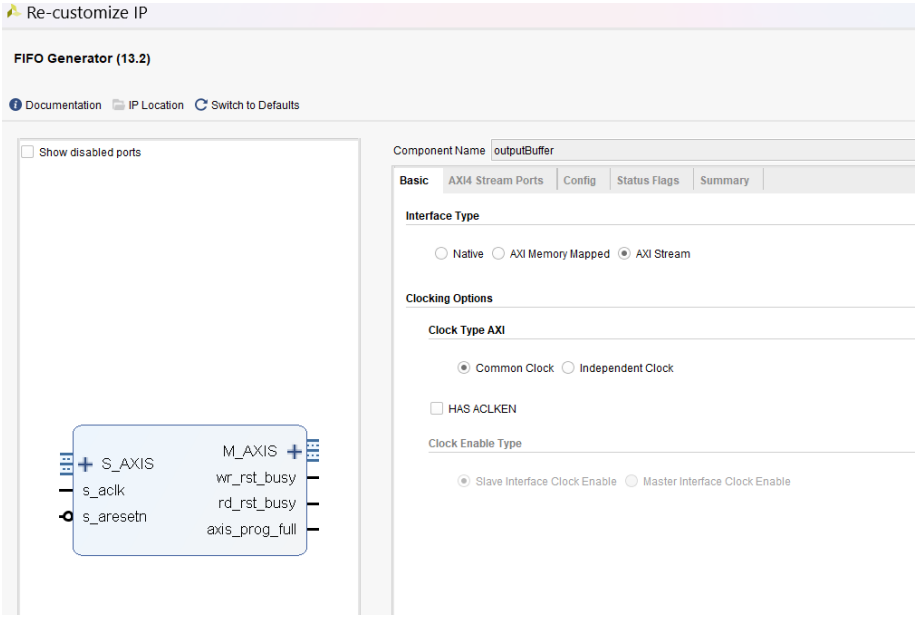


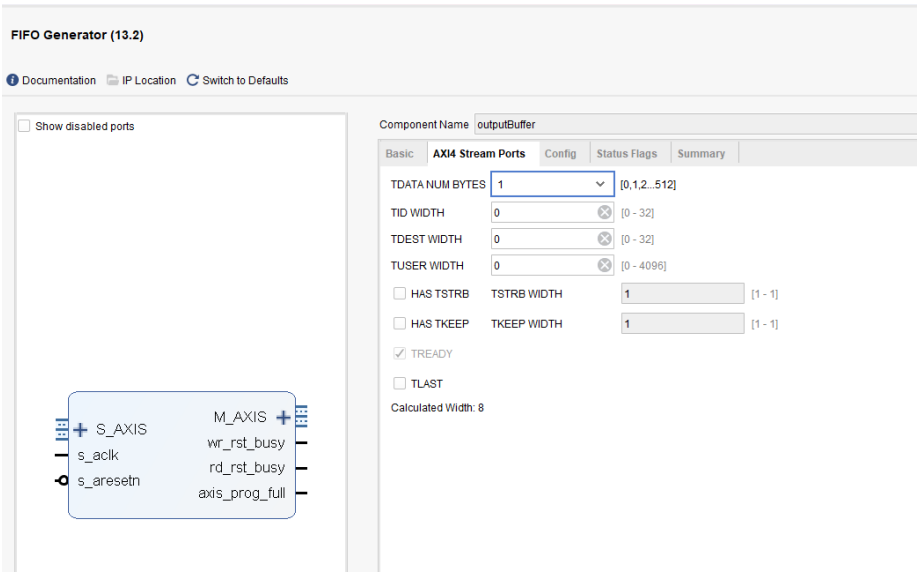


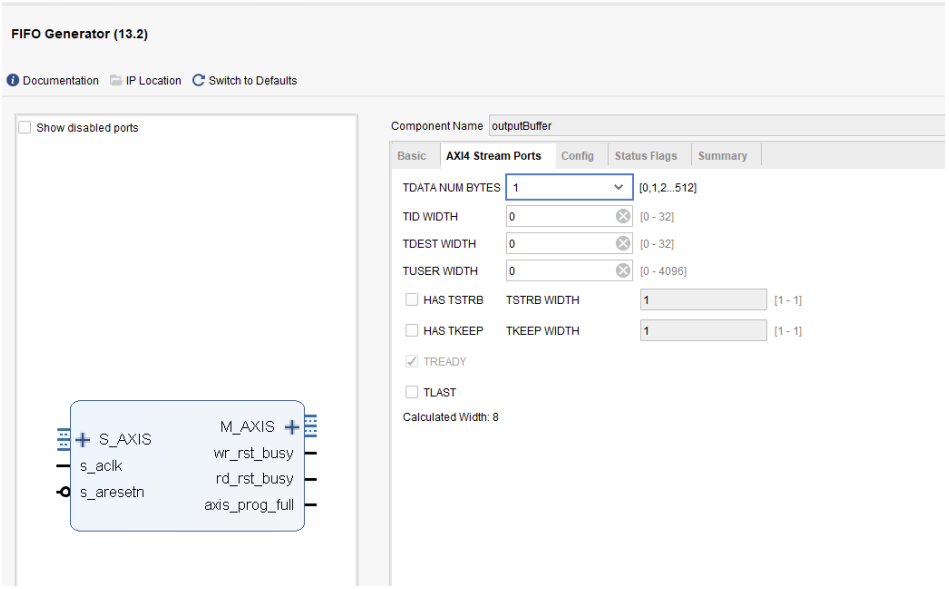
NB – change the component name as division_ip

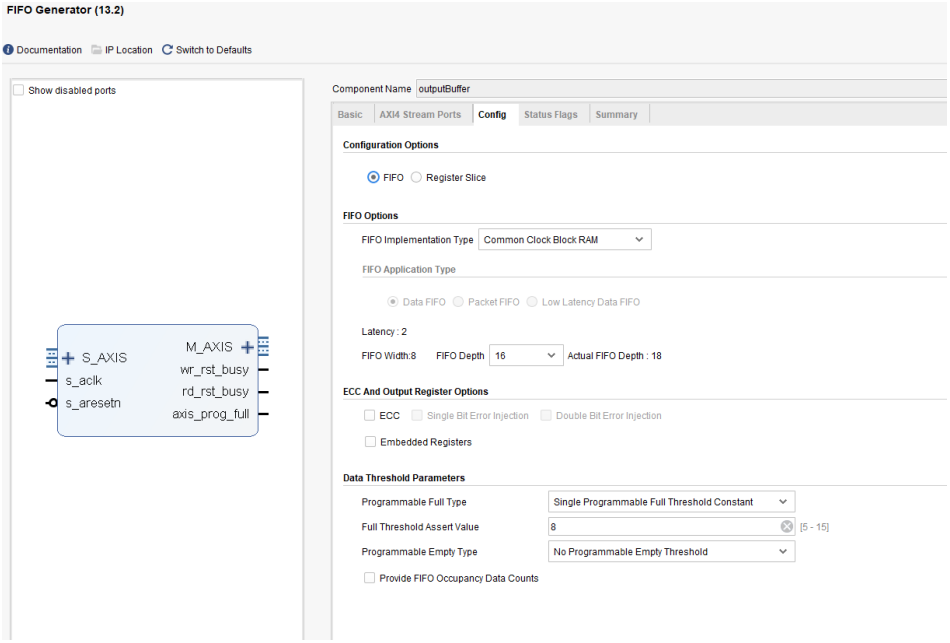
We also want to instantiate an output buffer, for these follow the steps:

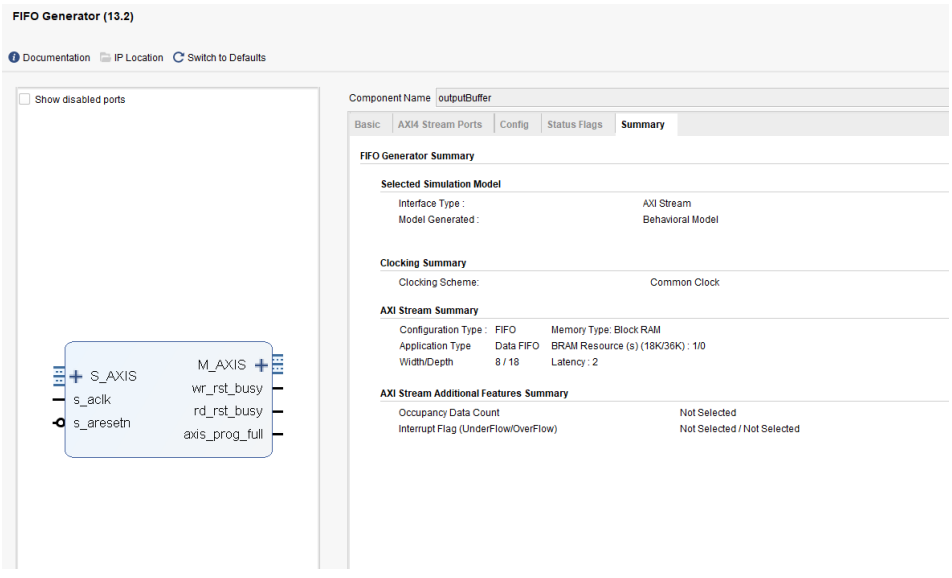
Go to IP Catalog in project manager >>> search for fifo generator IP >>> make its settings as shown below






FIFO Generator (13.2)
Documentation
IP Location
Switch to Defaults
Show disabled ports
S_AXIS
s_aclk
s_aresetn
M_AXIS
wr_rst_busy
rd_rst_busy
axis_prog_full
Component Name
outputBuffer
Basic
AXI4 Stream Ports
Config
Status Flags
Summary
TDATA NUM BYTES
1
[0,1,2...512]
TID WIDTH
0
[0 - 32]
TDEST WIDTH
0
[0 - 32]
TUSER WIDTH
0
[0 - 4096]
HAS TSTRB
TSTRB WIDTH
1
[1 - 1]
HAS TKEEP
TKEEP WIDTH
1
[1 - 1]
TREADY
TLAST
Calculated Width: 8


FIFO Generator (13.2)
Documentation
IP Location
Switch to Defaults
Show disabled ports
S_AXIS
s_aclk
s_aresetn
M_AXIS
wr_rst_busy
rd_rst_busy
axis_prog_full
Component Name
outputBuffer
Basic
AXI4 Stream Ports
Config
Status Flags
Summary
Configuration Options
FIFO
Register Slice
FIFO Options
FIFO Implementation Type
Common Clock Block RAM
FIFO Application Type
Data FIFO
Packet FIFO
Low Latency Data FIFO
Latency : 2
FIFO Width:8
FIFO Depth
16
Actual FIFO Depth : 18
ECC And Output Register Options
ECC
Single Bit Error Injection
Double Bit Error Injection
Embedded Registers
Data Threshold Parameters
Programmable Full Type
Single Programmable Full Threshold Constant
Full Threshold Assert Value
8
[5 - 15]
Programmable Empty Type
No Programmable Empty Threshold
Provide FIFO Occupancy Data Counts


FIFO Generator (13.2)
Documentation
IP Location
Switch to Defaults
Show disabled ports
S_AXIS
s_aclk
s_aresetn
M_AXIS
wr_rst_busy
rd_rst_busy
axis_prog_full
Component Name
outputBuffer
Basic
AXI4 Stream Ports
Config
Status Flags
Summary
FIFO Generator Summary
Selected Simulation Model
Interface Type :
AXI Stream
Model Generated :
Behavioral Model
Clocking Summary
Clocking Scheme:
Common Clock
AXI Stream Summary
Configuration Type :
FIFO
Memory Type: Block RAM
Application Type
Data FIFO
BRAM Resource (s) (18K/36K) : 1/0
Width/Depth
8 / 18
Latency : 2
AXI Stream Additional Features Summary
Occupancy Data Count
Not Selected
Interrupt Flag (UnderFlow/OverFlow)
Not Selected / Not Selected