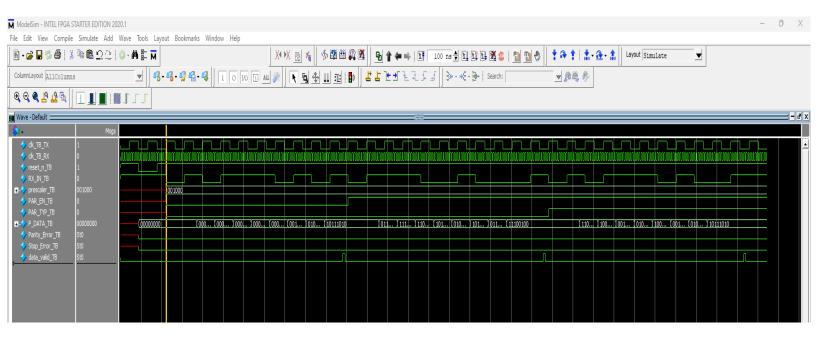
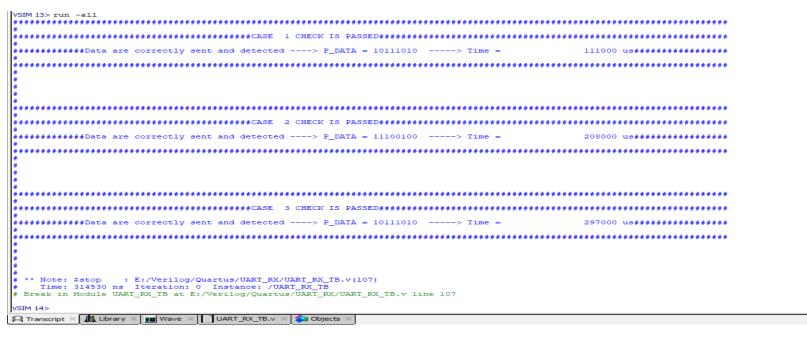
UART_RX

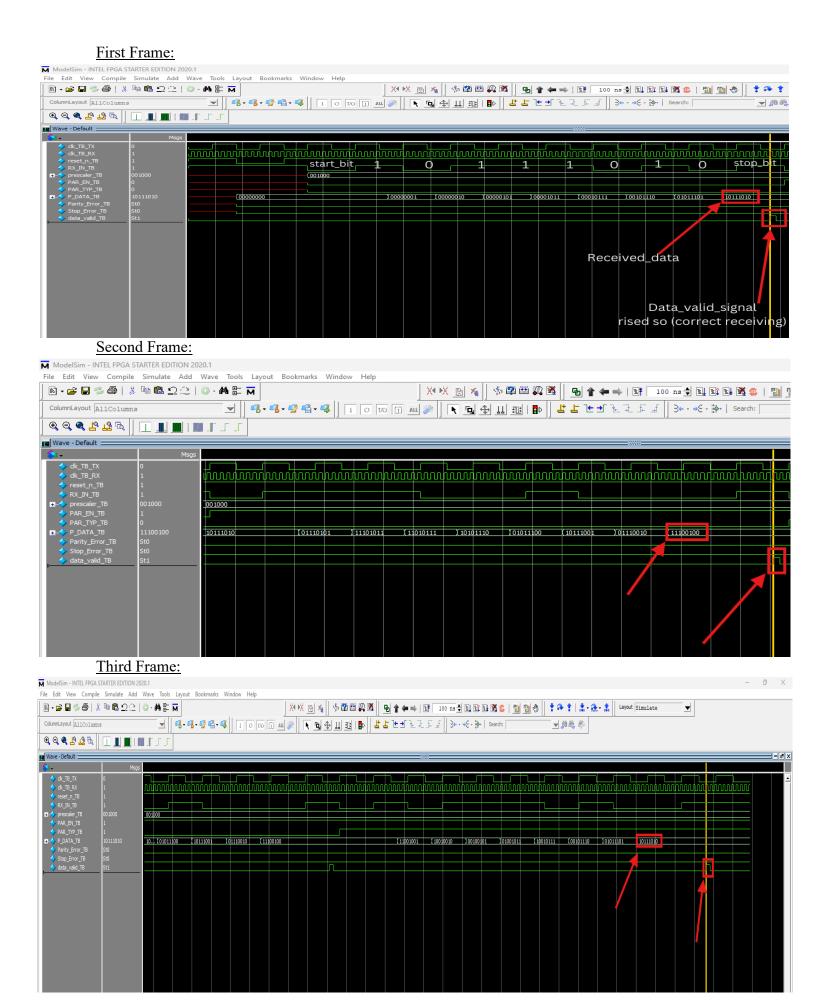
Case1: Prescale by 8:

1. Waveform of 3 Consequent Frames:



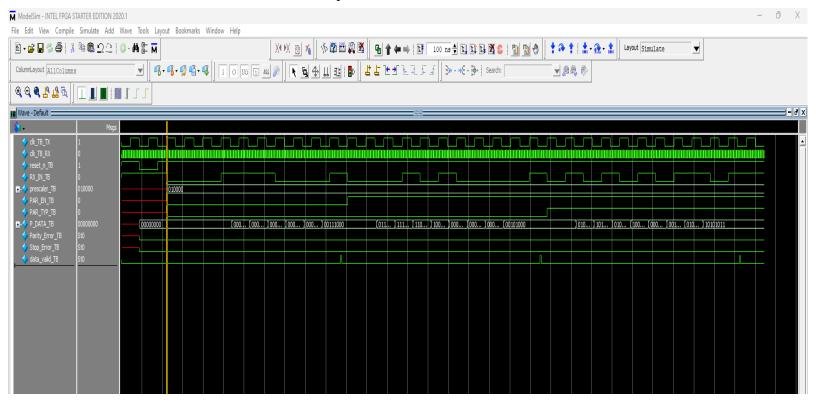
2. Log Window:





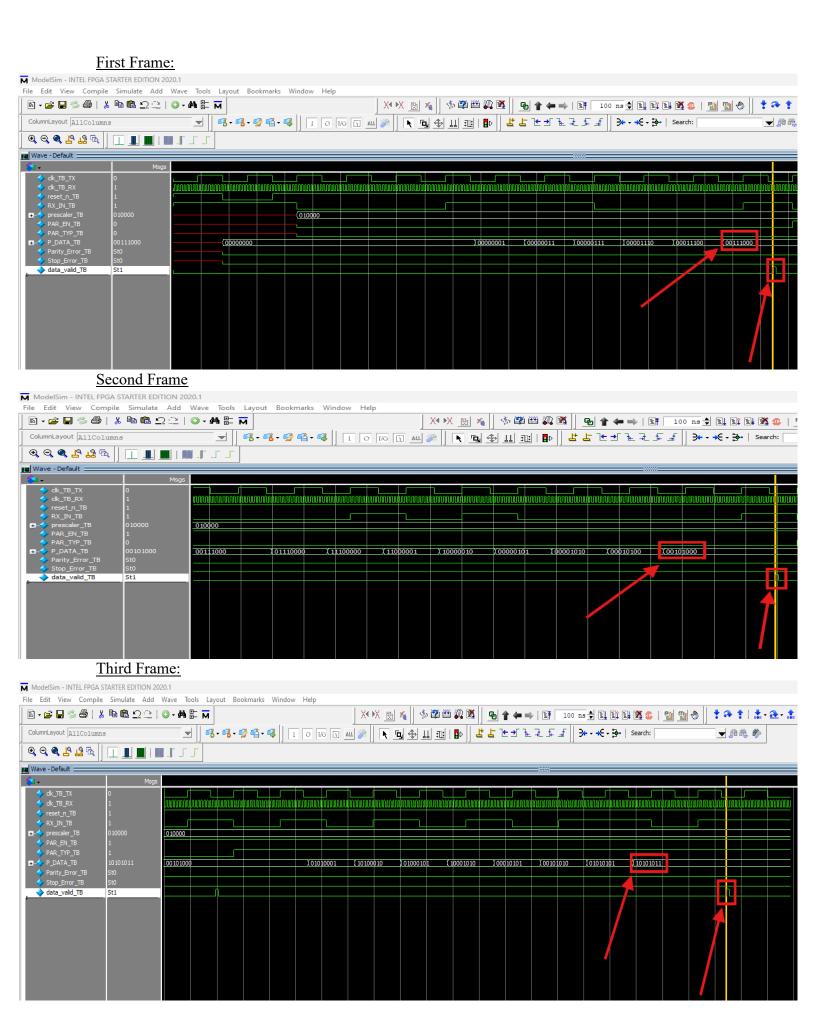
Case2: Prescale by 16:

1. Waveform of 3 Consequent Frames:



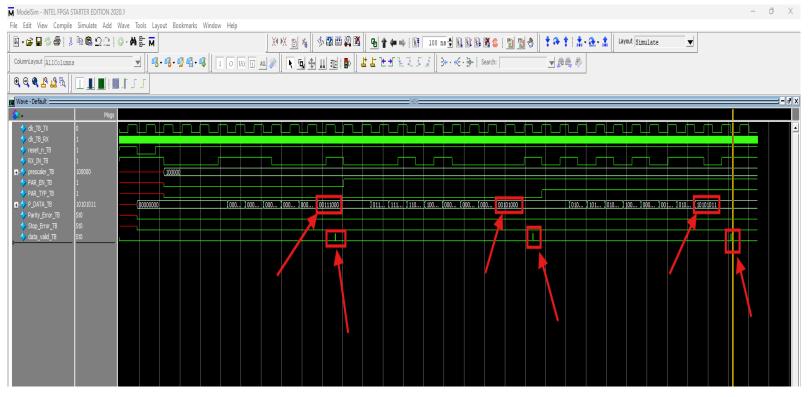
2. Log Window:





Case3: Prescale by 32:

1. Waveform of 3 Consequent Frames:



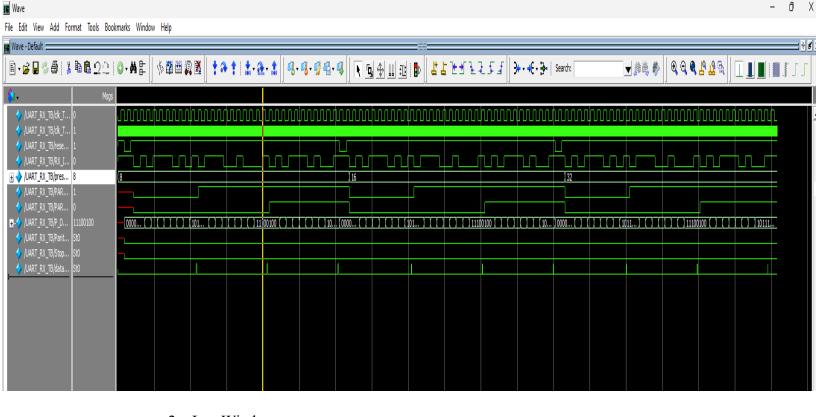
2. <u>Log Window:</u>



• The functionality of the UART_RX doesn't change with the value of the prescale, it just only determined when the bits will be sampled (i.e. prescale = 8 → the bits will be sampled at the third, fourth and fifth edge of the clock).

All Cases in One Waveform:

1. Waveform:



2. Log Window:



	,
######################################	
######################################	
###########Data are correctly sent and detected> P_DATA = 10111010> Time =	408000 us##################################
***************************************	••••••
••••••	

###########Data are correctly sent and detected> P_DATA = 11100100> Time =	505000 us##################################
· ************************************	
######################################	
############Data are correctly sent and detected> P DATA = 10111010> Time =	
***************************************	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
***************************************	••••••
***************************************	•••••
**************************************	• • • • • • • • • • • • • • • • • • • •
***************************************	•••••
***************************************	•••••
######################################	
############Data are correctly sent and detected> P_DATA = 10111010> Time =	704000 us##################################

########Data are correctly sent and detected> P_DATA = 11100100> Time =	802000 us##################################
••••••••••••••••••••••••••••••	•••••

##########Data are correctly sent and detected> P_DATA = 10111010> Time =	
** Note: \$stop : C:/Users/muhmd/OneDrive/Desktop/UART_RX_Mohamed Dawod/RTL&TB/UART_RX_TB.v	(266)

^{# **} Note: \$stop : C:/Users/muhmd/OneDrive/Desktop/UART_RX_Mohamed Dawod/RTL&TB/UART_RX_TB.v(266)
Time: 908150 ns Iteration: O Instance: /UART_RX_TB
Break in Module UART_RX_TB at C:/Users/muhmd/OneDrive/Desktop/UART_RX_Mohamed Dawod/RTL&TB/UART_RX_TB.v line 266