

List of files in the deliverables:

Name	Description
Final Project report pdf	Project report
Debounce.v	Module for denouncing inputs from push buttons
Sevenssegment.v	Seven segment display module
Dtg.v	Dtg module
Kcpsm6.v	Picoblaze softcore
N4DDRfpga_withvideo.xdc	Constraint file
Nexys4fpga.v	Top level module
Audio_PWM.v	Audio pwm code for generation of audio signals
Uart_read.v	(Firmware) Verilog file generated from picoblaze assembler.
Nexys4_if.v	A register-based interface to the Push buttons ,switches and UART on the Nexys 4
Uart_rcv.v	UART reciver module
Android_app_files (Folder)	Android source files
Java_SerialComm_Server (Folder)	Java server and serial communication source files
Colorizer.v	Assigns 4 bit values to each RGB components
Background.v	Module foe display, moving obstacles, bonus items and crashing logic with game controller
SwitchInterface.v	Module for switching between the screens
Firstscreen.v	Display logic for displaying first screen
Finalscreen.v	Display logic for displaying game complete screen
Gameover.v	Display logic for displaying game over screen
Continue.v	Display logic for displaying continue screen
Miffilegen.m	Matlab file for converting image to COE
Makecoe.m	Matlab file for converting audio to COE