CSE 3113 - Microprocessor and Assembly Lab
Lab 3 Report

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Class Roll: 07

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Task 1: Write an assembly language to perform all the logical operations (AND,OR,NOR,NAND,XOR,XNOR) on two 16-bit variables. Repeat it for two 32-bit variables.

1. Build

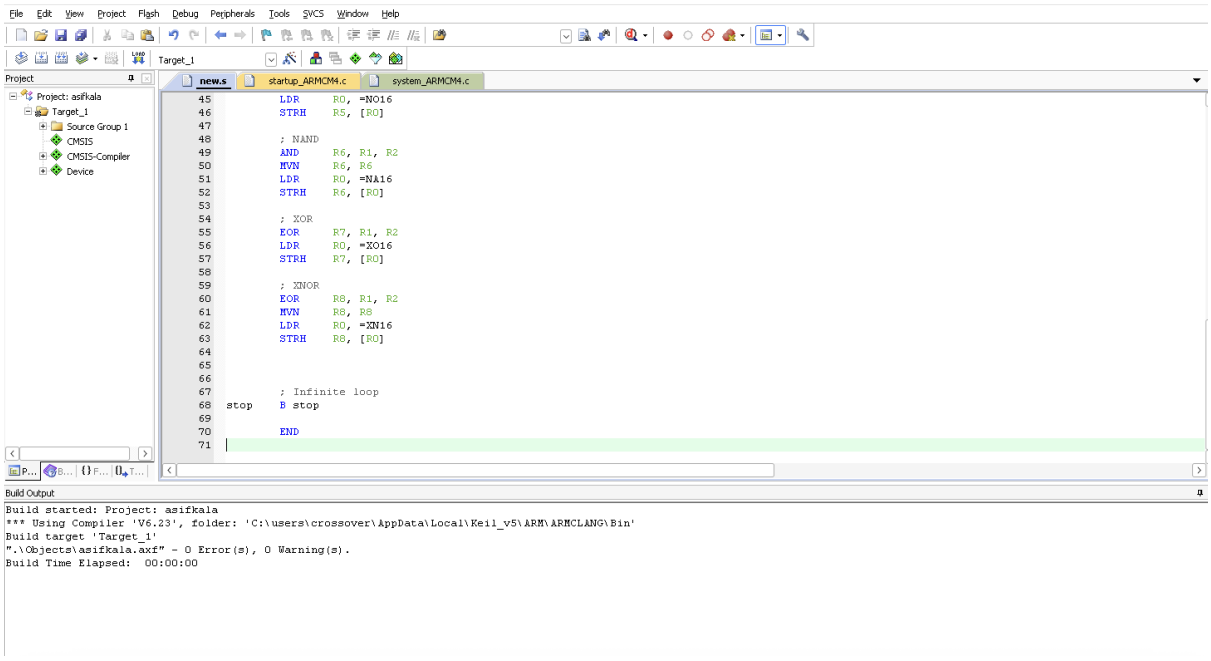

Figure 1: State of the system after the project is build.

2. Register Status After Execution

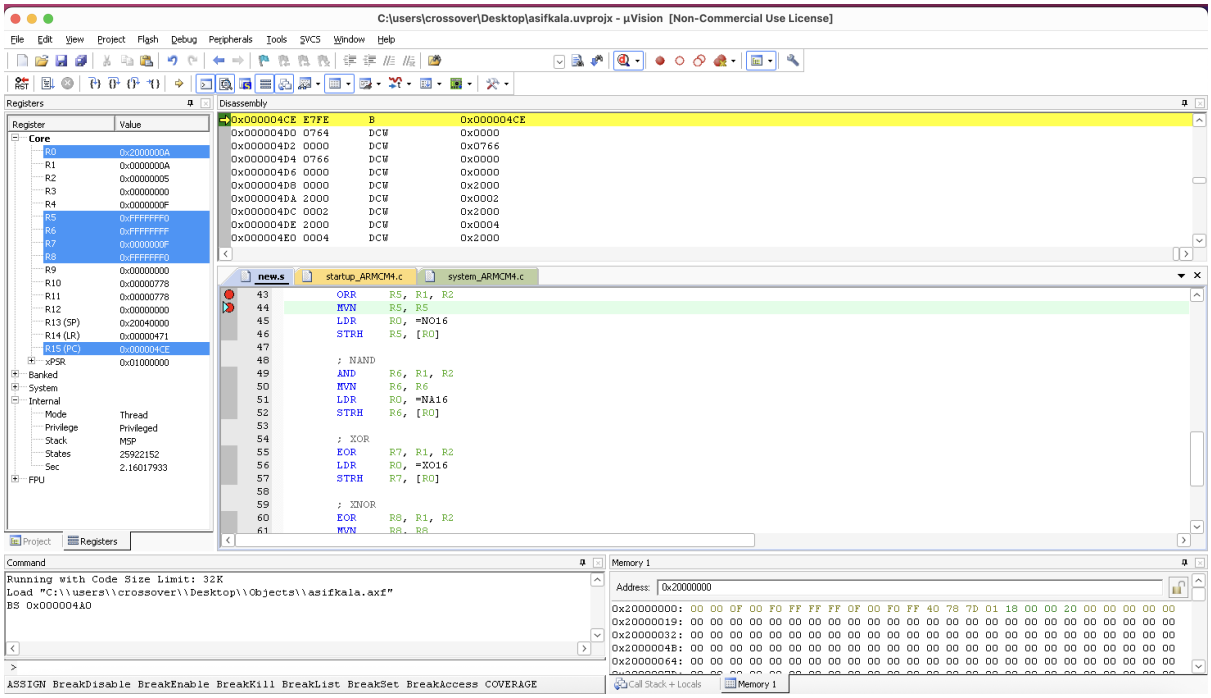

Figure 2: State of the system after the code has been executed.

1. Build

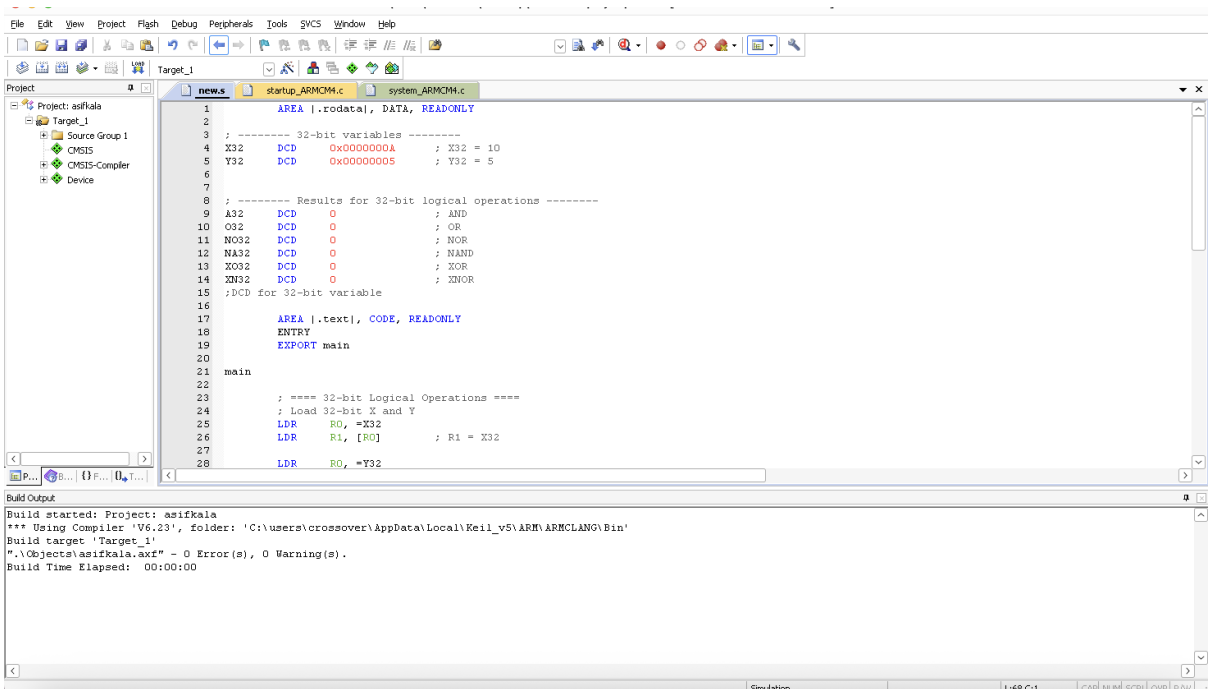

Figure 3: State of the system after the project is build.

2. Register Status After Execution

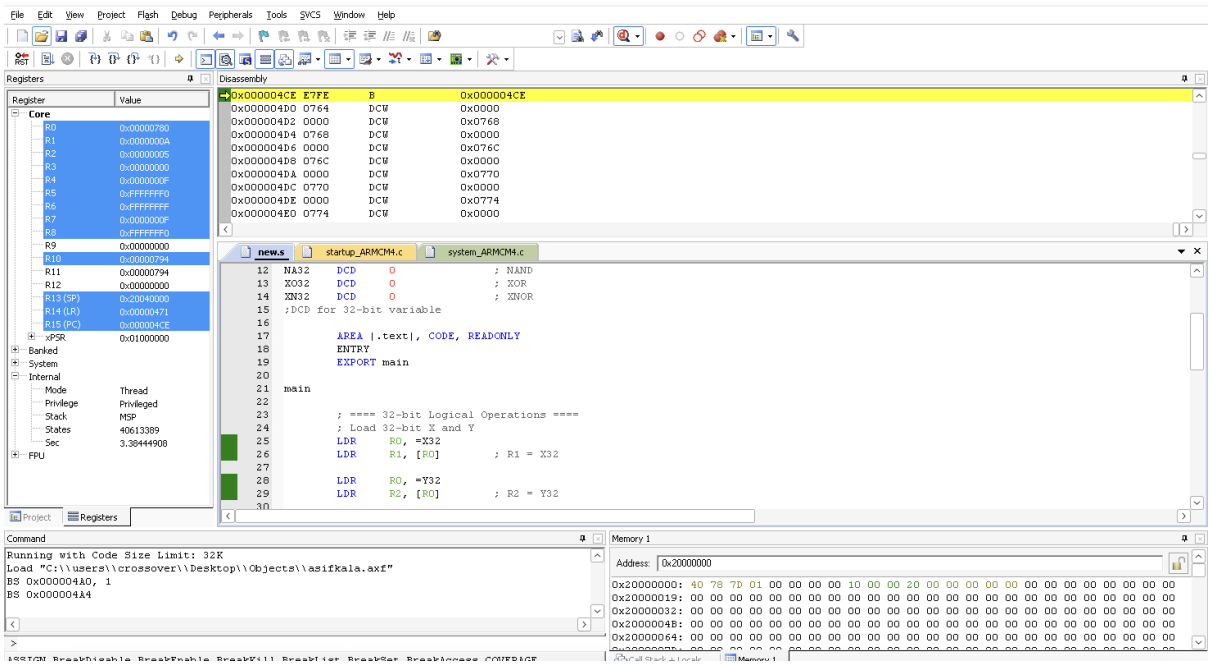

Figure 4: State of the system after the code has been executed.

Task 2: Write an assembly language to perform all the shift operations (LSR, ASR, LSL) on a 32-bit variable.

The following screenshots demonstrate the state of the system before and after execution of the program.

1. Build Status

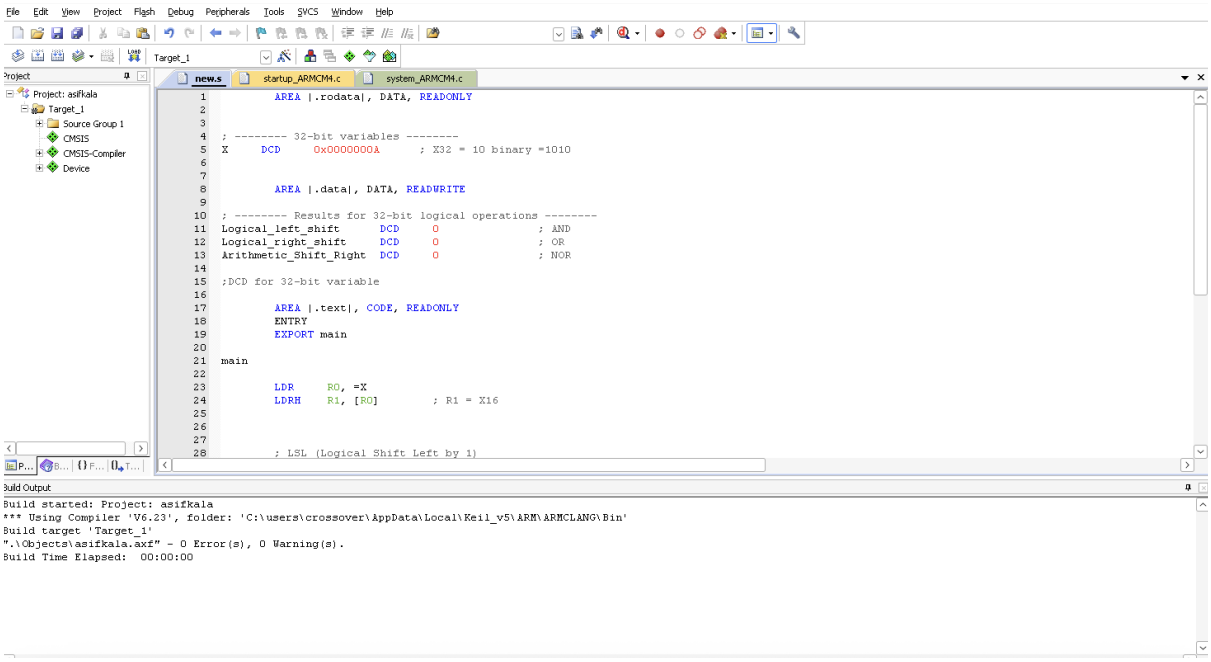

Figure 5: State of the system after the project is build.

2. Register Status After Execution

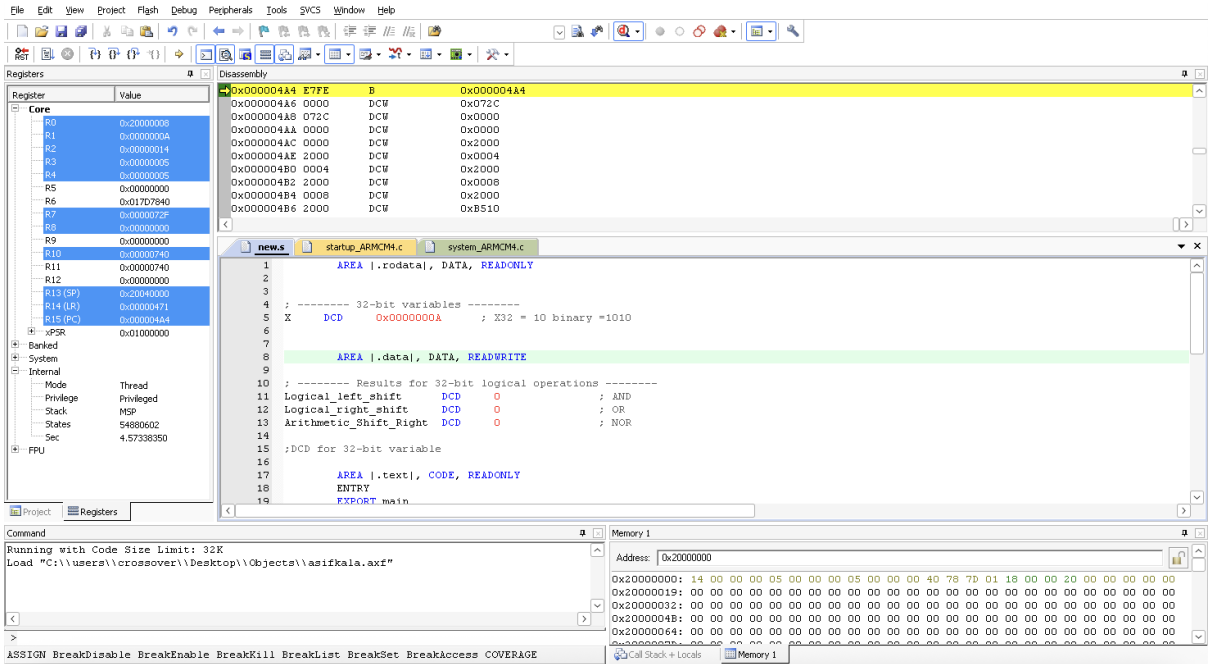

Figure 6: State of the system after the code has been executed.

Task 3: Write an assembly language program to nd the largest among n different numbers.

1. Build Status

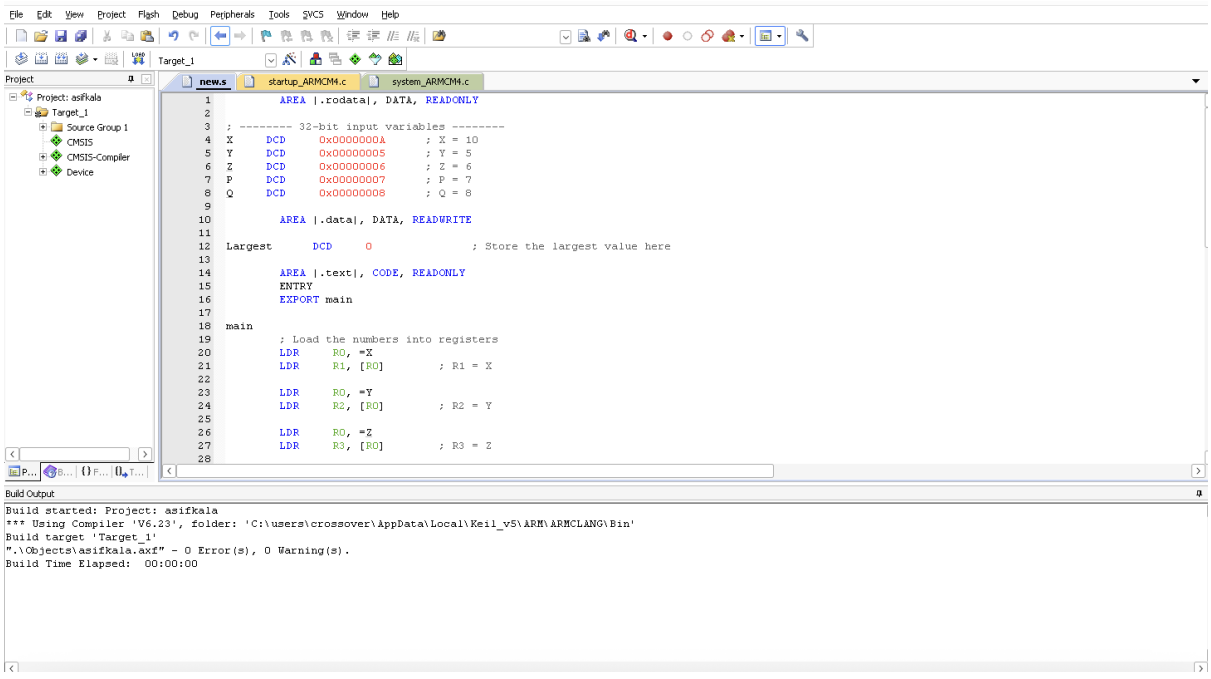

Figure 7: State of the system after the project is build.

2. Register Status After Execution

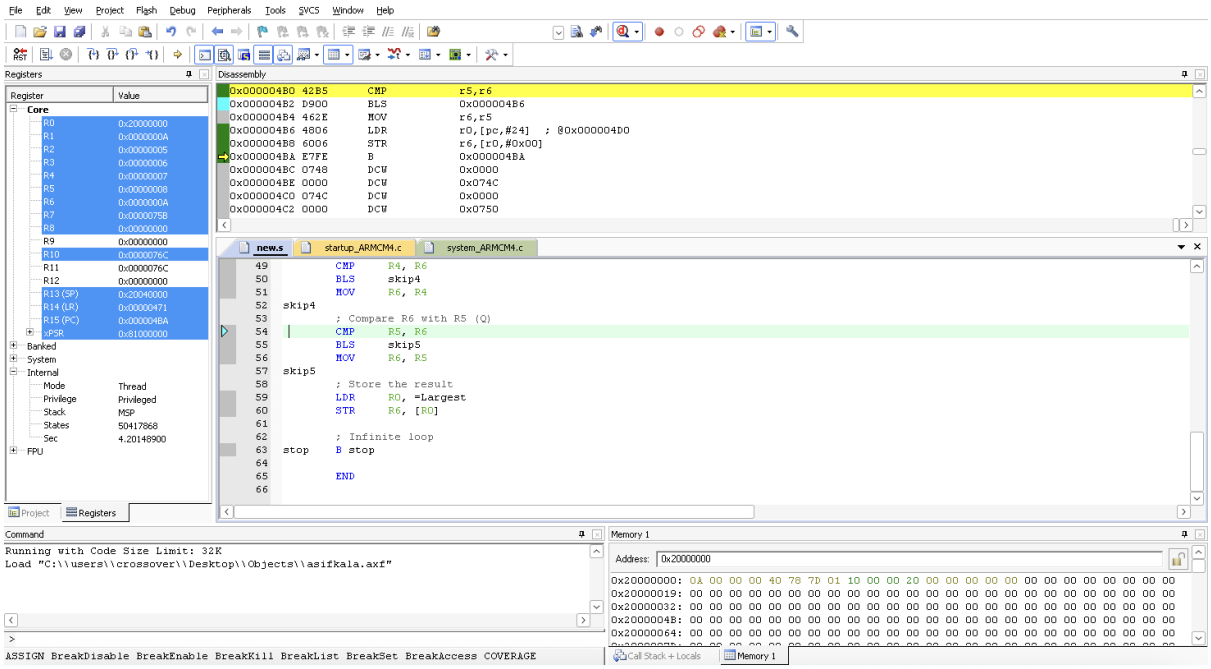

Figure 8: State of the system after the code has been executed.

Task 4:Write an assembly language program to nd the average of n numbers.

1. Build Status

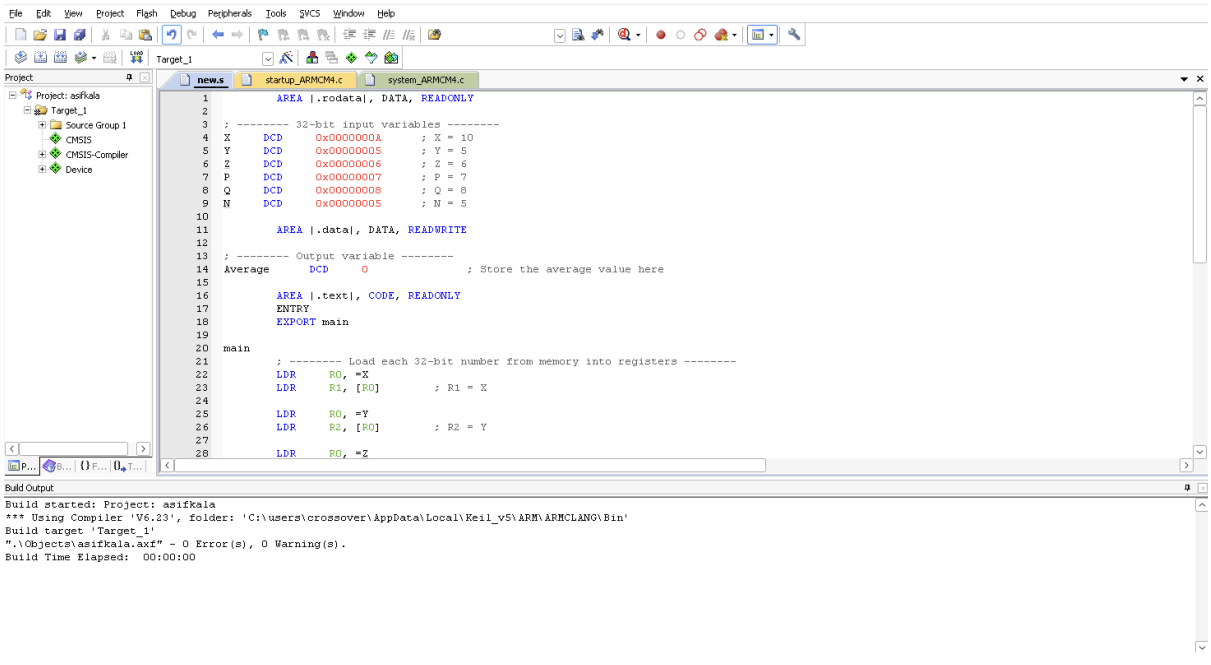

Figure 9: State of the system after the project is build.

2. Register Status After Execution

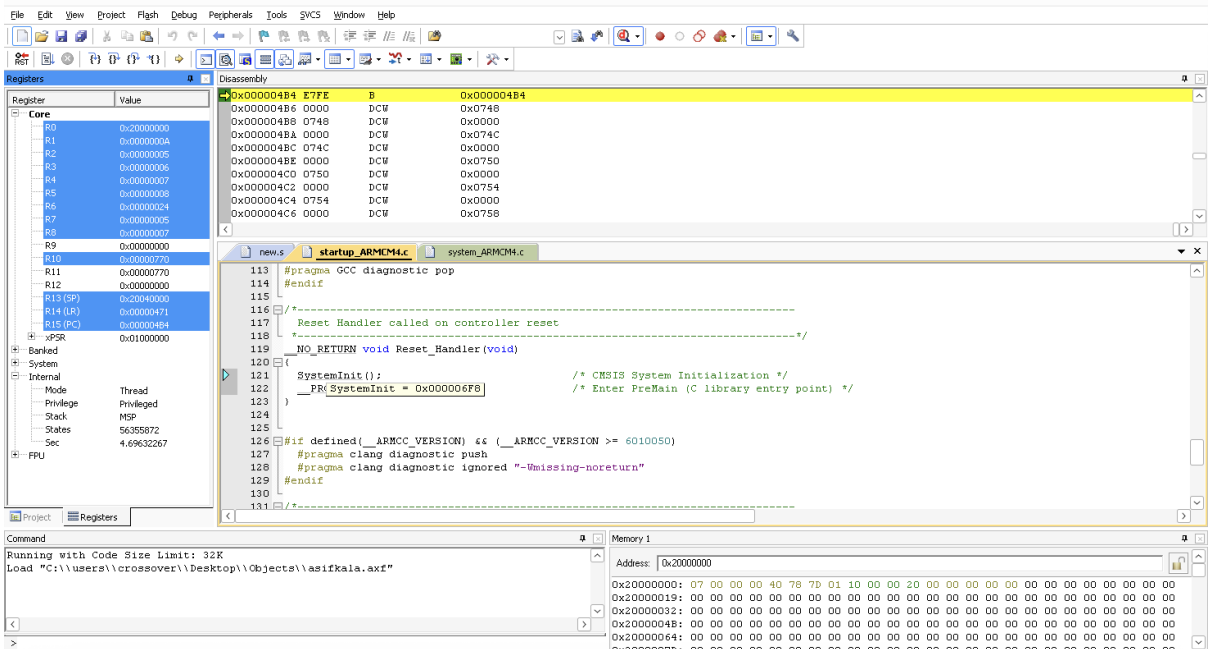

Figure 10: State of the system after the code has been executed.