Github root directory:
https://github.com/IMSB007/2019Fall
Date Submitted:

Task 00: Execute provided code

Youtube Link:

Task 01:

Youtube Link: https://www.youtube.com/watch?v=157TpeuTIuE

Modified Schematic (if applicable):

Modified Code:

```
// Insert code here
//length = 100
#define SERIES_LENGTH 1000


//global variables
float gSeriesData[SERIES_LENGTH];


int32_t i32DataCount = 0;


int main(void)
{
    //local variables
    //float fRadians;
    float sinv, cosv;
    //enable Lazy Stack
    ROM_FPULazyStackingEnable();
    //Turn on FPU
    ROM_FPUEnable();
    //set up the system clock for 50MHz
```

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```
    ROM_SysCtlClockSet(SYSCTL_SYSDIV_4 | SYSCTL_USE_PLL |
SYSCTL_XTAL_16MHZ | SYSCTL_OSC_MAIN);


    sinv = (2 * M_PI * 50)/SERIES_LENGTH;
    cosv = (2 * M_PI * 200)/SERIES_LENGTH;
    //fRadians = ((2 * M_PI) / SERIES_LENGTH);
    //the while loop will calculate the sine value for each of the 100 values of the angle
and place them in data array
    while(i32DataCount < SERIES_LENGTH)
    {
        //gSeriesData[i32DataCount] = sinf(fRadians * i32DataCount);
        gSeriesData[i32DataCount] = 1.5 + 1.0 * sinf(sinv * i32DataCount) + 0.5 *
cosf(cosv * i32DataCount);
        i32DataCount++;
    }
    //endless loop
    while(1)
    {
    }
}
```

Grading scheme: 30% Coding, 30% Documentation, 40% Execution/Video.

Jiajian Chen

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