Date Submitted: 11/12/19

Task 00: Execute provided code

```
#define TARGET_IS_BLIZZARD_RB1
#include <stdint.h>
#include <stdbool.h>
#include <math.h>
#include "inc/hw_memmap.h"
#include "inc/hw_types.h"
#include "driverlib/fpu.h"
#include "driverlib/sysctl.h"
#include "driverlib/rom.h"
#include "driverlib/rom_map.h"
#ifndef M_PI
#define M PI
                                3.14159265358979323846
#endif
#define SERIES_LENGTH 100
float gSeriesData[SERIES_LENGTH];
int32_t i32DataCount = 0;
int main(void)
    float fRadians;
    ROM_FPULazyStackingEnable();
    ROM_FPUEnable();
    ROM_SysCtlClockSet(SYSCTL_SYSDIV_4 | SYSCTL_USE_PLL | SYSCTL_XTAL_16MHZ |
SYSCTL_OSC_MAIN);
    fRadians = ((2 * M_PI) / SERIES_LENGTH); // determine value
   while(i32DataCount < SERIES_LENGTH) // number of data points is under
series length
    {
        gSeriesData[i32DataCount] = sinf(fRadians * i32DataCount); assign
value to array
        i32DataCount++;
    }
   while(1)
    {
    }
}
```

Task 01:

```
Modified Code:
```

```
#define TARGET_IS_BLIZZARD_RB1
#include <stdint.h>
#include <stdbool.h>
#include <math.h>
#include "inc/hw_memmap.h"
#include "inc/hw_types.h"
#include "driverlib/fpu.h"
#include "driverlib/sysctl.h"
#include "driverlib/rom.h"
#include "driverlib/rom_map.h"
#ifndef M_PI
#define M_PI
                                3.14159265358979323846
#endif
#define SERIES_LENGTH 100
float gSeriesData[SERIES_LENGTH];
int32_t i32DataCount = 0;
int main(void)
{
    float fRadians;
    ROM_FPULazyStackingEnable();
    ROM_FPUEnable();
    ROM_SysCtlClockSet(SYSCTL_SYSDIV_4 | SYSCTL_USE_PLL | SYSCTL_XTAL_16MHZ |
SYSCTL_OSC_MAIN);
    fRadians = ((2 * M_PI) / SERIES_LENGTH); // determine value
    while(i32DataCount < SERIES_LENGTH) // number of data points is under</pre>
series length
        gSeriesData[i32DataCount] = sinf(fRadians * i32DataCount); assign
value to array
        i32DataCount++;
    }
```

Github root directory: https://github.com/westbrian2/Fall2019

```
while(1)
{
    }
}
```