HW1 Solutions

Chapter 2 exercise 3

```
1  cd
2  mkdir eme152
```

Chapter 2 exercise 6

```c
1  /**
2   * File: myhello.c
3   * Developed by Nicolas Ventura for homework 1 for EME152.
4   * Print multiple lines on the screen.
5   */
6
7  #include <stdio.h>
8
9  int main(void) {
10     printf("Hello world!\n");
11     printf("This is my first C program.\n");
12     return 0;
13 }
```

Chapter 2 exercise 13

```c
1  #include <stdio.h>
2
3  int main(void) {
4      /* Display the result. */
5      printf("Area = %f m^2\n", 4.0 * 3.14159 * 5.0 * 5.0);
6      return 0;
7  }
```

Chapter 3 exercise 1

```
1  (b) 0b01101100
2  (c) 0b01110111
3  (e) 0b11111011 (assume binary two's complement notation)
4  Answer:
5  (b) 0154, 108, 0x6c
6  (c) 0167, 119, 0x77
7  (e) 0373, -5, 0xFB
```

Chapter 3 exercise 2

```
1  (a)  1 = 0b00000000000000000000000000000001
2  (c)  2 = 0b00000000000000000000000000000010
3  (e)  4 = 0b00000000000000000000000000000100
4  (f) -4 = 0b11111111111111111111111111111100
5  (k)  9 = 0b00000000000000000000000000001001
6  (m) 10 = 0b00000000000000000000000000001010
```