16.216: ECE Application Programming
Fall 2015

Lecture 2: Key Questions
September 4, 2015

1. Describe the key components of the basic C program shown below. What is the output of this program?

```c
#include <stdio.h>
int main()
{
    printf("Hello World!\n");
    return 0;
}
```

2. What is the output of each of the following variations on the basic program shown in
    Question 1?

a.

```c
#include <stdio.h>
int main()
{
    printf("Hello");
    printf("there");
    printf("World!");
    return 0;
}
```

b.

```c
#include <stdio.h>
int main()
{
    printf("Hello\n");
    printf("there\n");
    printf("World!\n");
    return 0;
}
```

c.

```c
#include <stdio.h>
int main()
{
    printf("Hello\nthere\nWorld!\n");
    return 0;
}
```

3. Describe the purpose of comments and the different types of comments used in C.

4. List the four basic data types in C, as well as some valid and invalid values for each type.

5. Use the following space for notes on the Visual Studio demonstration. (Note that a detailed
    description of how to create a new project is included with the Program 1 specification.)