EECE.2160: ECE Application Programming
Fall 2018

Lecture 23: Key Questions
October 29, 2018

QUESTIONS:

1. Describe how character arrays can be used to represent strings in C.

2. Describe the string library functions frequently used to work with strings.

EXAMPLE:

What does the following program print?

```c
int main() {
   char s1[15];
   int n1;
   char s2[10] = ".216";
   int n;

   strncpy(s1, "16", 15);
   n1 = strlen(s1);
   printf("s1 = %s\n", s1);
   printf("Length of s1 = %d\n\n", n1);


   printf("%c\n\n", s1[1]);


   strncat(s1,s2,10);
   n1 = strlen(s1);
   printf("s1 = %s\n", s1);
   printf("Length of s1 = %d\n\n", n1);


   // Assume user inputs: ABC ABD
   printf("Enter two strings:");
   scanf("%s%s", s1, s2);
   n = strncmp(s1, s2, 15);
   if (n > 0)
      printf("%s > %s\n", s1, s2);
   else if (n < 0)
      printf("%s < %s\n", s1, s2);
   else
      printf("%s == %s\n", s1, s2);
   return 0;
}
```