## **17 Lecture - CS201**

## **Important Subjective**

1. What is a string in C programming? How is it different from a character array?

Ans: A string is a sequence of characters terminated by a null character '\0'. It is a built-in data type in C language. A character array is a collection of characters. The difference between a string and a character array is that a string is terminated by a null character whereas a character array is not.

2. How can you input a string in C programming?

Ans: We can input a string in C programming using the 'gets' function or the 'scanf' function with '%s' format specifier.

3. How can you output a string in C programming?

Ans: We can output a string in C programming using the 'puts' function or the 'printf' function with '%s' format specifier.

4. How can you find the length of a string in C programming?

Ans: We can find the length of a string in C programming using the 'strlen' function.

5. How can you concatenate two strings in C programming?

Ans: We can concatenate two strings in C programming using the 'strcat' function.

6. How can you compare two strings in C programming?

Ans: We can compare two strings in C programming using the 'strcmp' function.

7. How can you copy one string into another in C programming?

Ans: We can copy one string into another in C programming using the 'strcpy' function.

8. What is a substring in a string? How can you extract a substring from a string in C programming?

Ans: A substring is a portion of a string. We can extract a substring from a string in C programming using the 'strncpy' function or the 'strstr' function.

9. How can you convert a string to an integer in C programming?

Ans: We can convert a string to an integer in C programming using the 'atoi' function.

10. How can you convert an integer to a string in C programming?

Ans: We can convert an integer to a string in C programming using the 'sprintf' function.