

# 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.